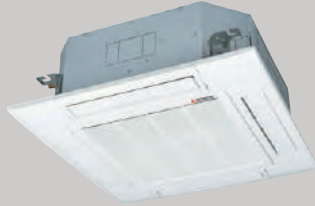


# Packaged Air Conditioners

# **FD**series

High Performance  
Air Conditioning

# 2024



**FDT**  
4 way



**FDTC**  
4 way compact

**New RC-ES1**  
Design Remote Control



**New M-Air Pro**  
Mobile App



Fine snow panel



Shadow black panel



# Packaged Air Conditioners

## **FD** High Performance Air Conditioning *series*

The PAC range from Mitsubishi Heavy Industries Thermal Systems is ideal for air conditioning in offices, shops, restaurants, and bars, as well as other commercial environments. The versatility of the PAC range, offers you a wide selection of models in function of your installation needs. The modern and attractive design of our indoor units is harmoniously integrated into any atmosphere creating a pleasant and relaxing environment.



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# Next Generation Refrigerant R32

All indoor units and outdoor units line up are available for R32 refrigerant



FDT



FDTC



FDU



FDUM



SRK



FDE

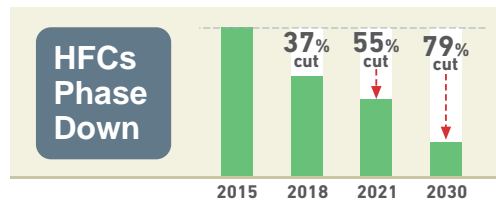


FDF

## F-GAS REGULATION (EU) No 517/2014

Introduced in January 2015 to regulate the use of Fluorinated Greenhouse Gases (F-Gases)

The Hydrofluorocarbons (HFCs) are F-Gases used in the HVACR sector (Heating, Ventilation, Air Conditioning and Refrigeration)



### OBJECTIVE

To protect the environment by reducing the F-Gases emissions

### IMPACT ON HFCs(in EU)

HFCs Phase Down

HFCs Ban

### SOLUTIONS

- Use lower GWP\* refrigerants in new equipment
- Use high-efficiency equipment with less refrigerant charge
- Check refrigerant leaks regularly

\* GWP is the Global Warming Potential of a refrigerant, representing how much heat an F-Gas traps in the atmosphere

### HFCs Ban

2020

**GWP ≥ 150**  
Portable room air conditioner

**GWP ≥ 2500**  
Stationary refrigeration\*<sup>1</sup>  
(except < -50°C)

**GWP ≥ 2500**  
Commercial hermetically sealed refrigerators, freezers

2022

**GWP ≥ 150**  
Commercial multipack centralised refrigeration

**GWP ≥ 150**  
Commercial hermetically sealed refrigerators, freezers

2025

**GWP ≥ 750**  
Single Split Fixed Air Conditioning < 3kg HFC

\*1 Stationary refrigeration equipment, that contains or relies its functions upon, HFCs with GWP of 2500 or more except equipment intended for application designed to cool products to temperatures below -50°C application



LOWER GWP + LESS REFRIGERANT CHARGE = LOWER HFCs EMISSIONS

# R32 - A Low GWP Refrigerant

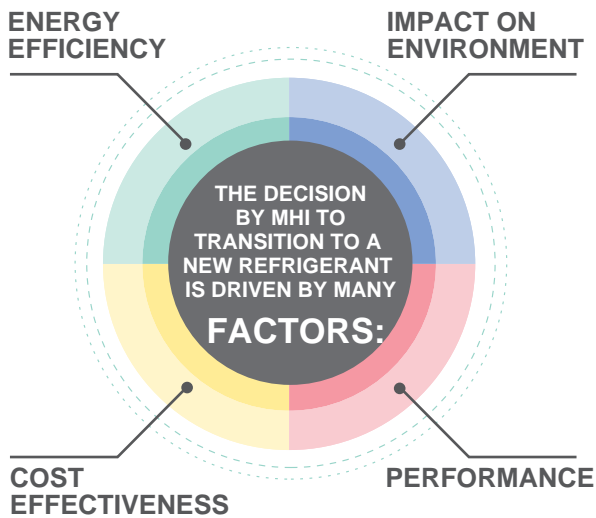
- A single component, easy to handle refrigerant
- Known as a component of the blend R410A(50% R32, 50% R125)
- Already used in Air Conditioning systems worldwide
- Zero Ozone Depletion
- Superior Energy Efficiency vs. R410A
- Reduced refrigerant charge vs. R410A
- Easy to recycle



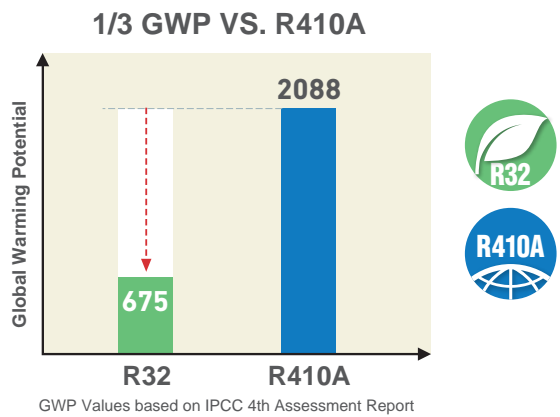
**Hyper Inverter**

**Micro Inverter**

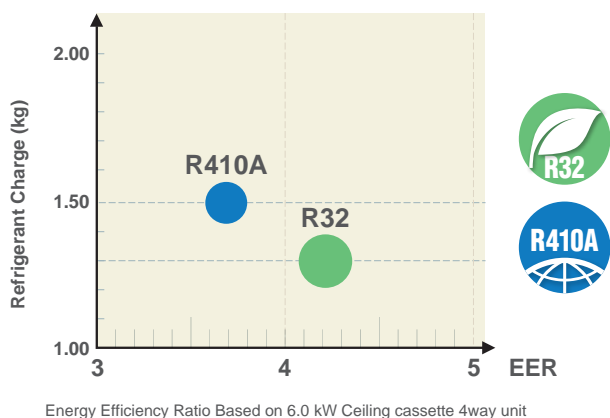
**Standard Inverter**



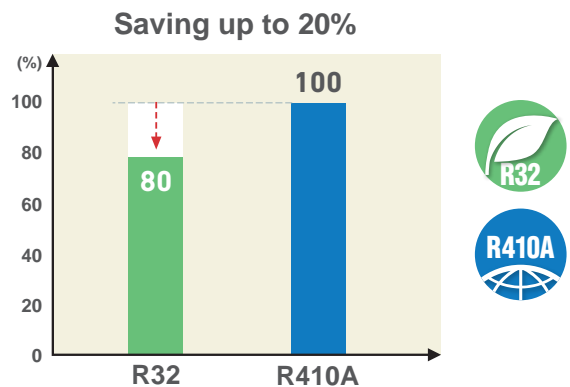
## Low Global Warming Potential



## Improved Energy Efficiency



## Reduced Refrigerant Charge



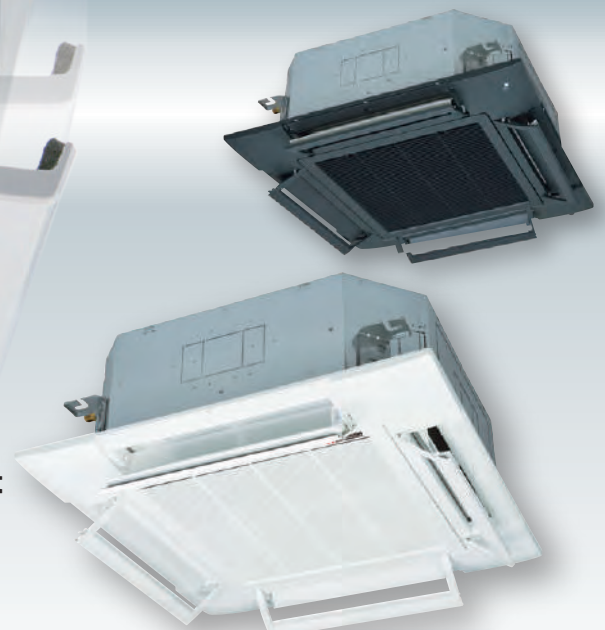
# New Generation

Ceiling Cassette  
4way

# FDT



- Automatic energy saving control
- Keep maximum comfort with minimal draft
- Quiet operation

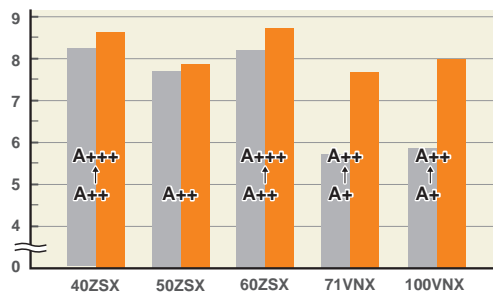


## High energy efficiency with new technology

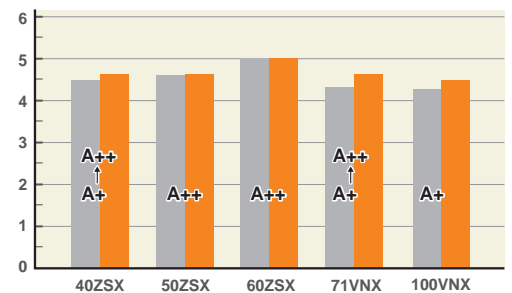
FDT can achieve higher seasonal efficiency by utilising Mitsubishi Heavy Industries latest technology.

● SEER and SCOP is defined in European regulations. Please refer to P116.

**SEER in cooling** ■ Previous(VG(R410A)) ■ New(VH(R32))



**SCOP in heating** ■ Previous(VG(R410A)) ■ New(VH(R32))



## Quieter noise & Improved aerodynamic performance of the unit

New technology achieved low noise while keeping capacity and comfort by reducing the pressure fluctuation in an indoor unit. A fan guard ensures both safety and quietness.

Turbo fan



Fan guard (standard equipment)



## Various panels available

You can choose white and black panel according to the atmosphere and purpose of the room.



White panel (Fine snow)



Black panel (Shadow black)

## New flexible flap control for draft prevention



### Draft Prevention Panel (Option)

Each of the 4 flaps can be controlled individually at each operation mode. They change air flow direction and prevent drafts occurring. This function also provides flexible control of air flow direction.



### Motion Sensor (Option)

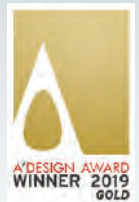
Motion sensor (option) detects human activity. Energy saving control is achieved by shifting set temperature according to detected amount of activity.

Ceiling Cassette  
4way compact

# FDTC



- More comfort and Higher energy savings
- European design
- Lower noise



A' Design Award and Competition is the World's largest, most prestigious and influential design accolade, the highest achievement in design. A' Design Award Winner Logo, symbolizes exceptional design excellence in products, projects and services.

## European Design & Flat Panel



## Various panels available

You can choose the grill design according to the atmosphere and purpose of the room.



Integrated Ceiling System Design(600×600)

## Draft Prevention Panel and Motion Sensor (option)

Draft prevention panel and motion sensor are available on FDTC, just like on FDT.

Floor  
standing

# FDF

- New floor standing unit compatible with R32
- Increased Energy efficiency
- R32 leak detector built-in



## Improved features

Heat exchanger design optimized for R32 operation. The leak detector device will be integrated at the bottom of the unit. Remote control upgraded for leak detector functions.



# Draft Prevention

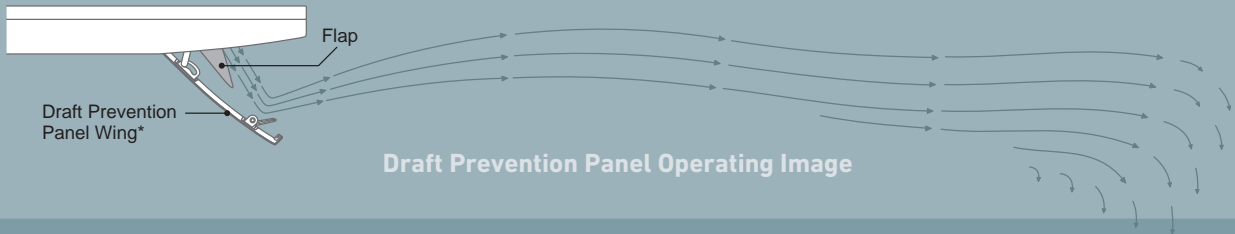
Keep maximum comfort with minimal draft: FDT & FDTC control flaps with more flexibility.



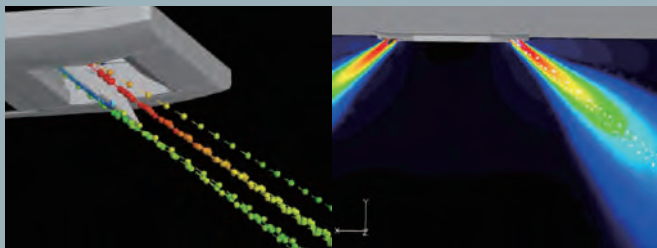
Ceiling cassette Compact FDTC



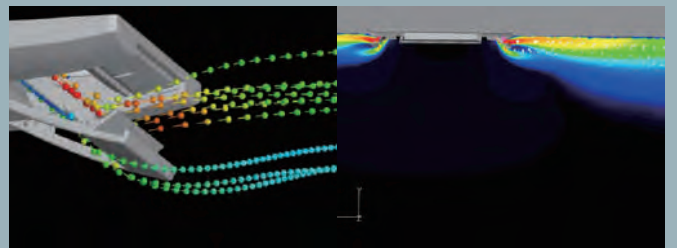
Ceiling cassette FDT



Draft Prevention Panel off



Draft Prevention Panel working \*



Draft Prevention Panel provides a comfortable airflow without any draft feeling. Whether cooling or heating a room, the remote control can be used to instantly suppress any warm or cool drafts. This accurately assists how air flow is directed out of the indoor unit.

\* Images is for illustration purposes.



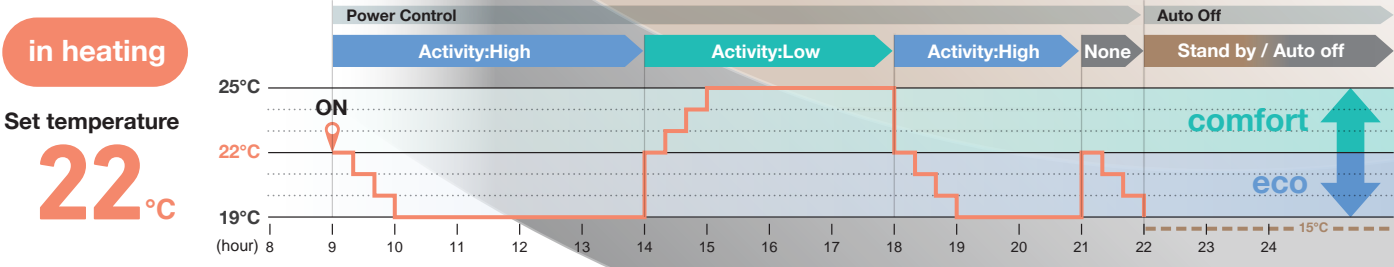
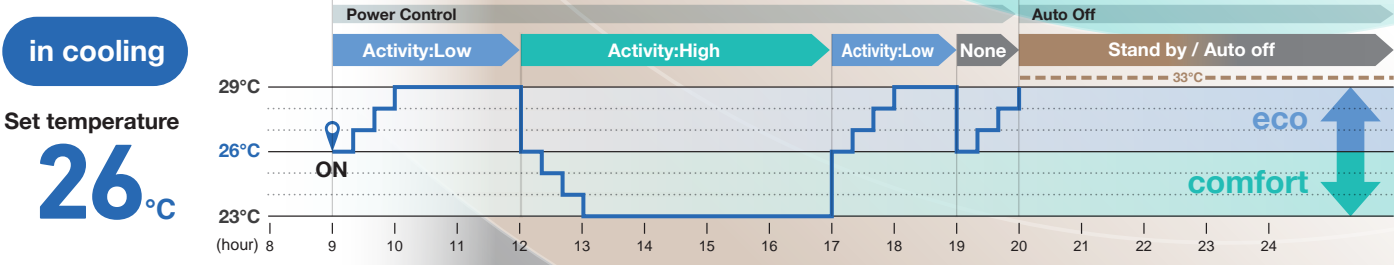
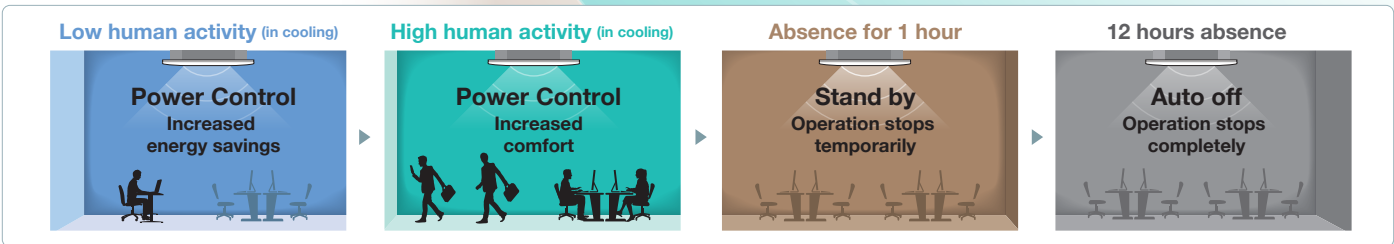
# Motion Sensor

## Energy saving operation by detecting human movement

### 3 Step Control

- 1 Power Control** Motion sensor (option) detects human activity. Energy saving control is achieved by shifting set temperature according to detected amount of activity.
- 2 Stand by** Unit will go on stand-by mode when no activity is detected. When the motion sensor detects activity again, the unit will automatically re-start operation.
- 3 Auto Off** Unit will go off automatically when no activity is detected for 12 hours.

Optional for models



Operation mode and Control of Motion sensor		eco operation		Operation mode				
		comfort operation		Auto	Cool	Heat	Dry	Fan
Power Control *1	Human activity 	Low	Cooling +3°C Heating +3°C	+3°C	+3°C	+3°C	—	—
		High	Cooling -3°C Heating -3°C	-3°C	-3°C	-3°C	—	—
		None	Cooling +3°C Heating -3°C	+3°C	-3°C	-3°C	—	—
Auto Off *2				●	●	●	●	●

\*1 Set temperature is revised maximum  $\pm 3^{\circ}\text{C}$  at Cooling/Heating mode by detecting heat volume movement.

\*2 Absence for 1 hour  $\Rightarrow$  Operation stops ("Stand-by") 12 hours absence  $\Rightarrow$  Operation stops completely

# New! Design Remote Control

## RC-ES1

- Simple and sophisticated design
- Compact size (86x86mm)
- Remote control with Bluetooth® wireless technology



You can control the air-conditioner  
by installing App on your Smartphone



Search for "M-Air Pro" from the GooglePlay™  
store for Android™ and AppStore for iPhone.



Application compatible model: Android™ OS 9.0 or later smartphones and tablets, iPhone for iOS 14.0 or later.  
App Store and iPhone are registered trademark of Apple Inc.  
Google Play and the Google Play logo are trademarks of Google LLC.



## Wireless connection

- Remote control with Bluetooth® wireless technology
- Easy set-up of indoor units
- Notifications of abnormal conditions or operational data from the remote control will be sent to your smartphone.



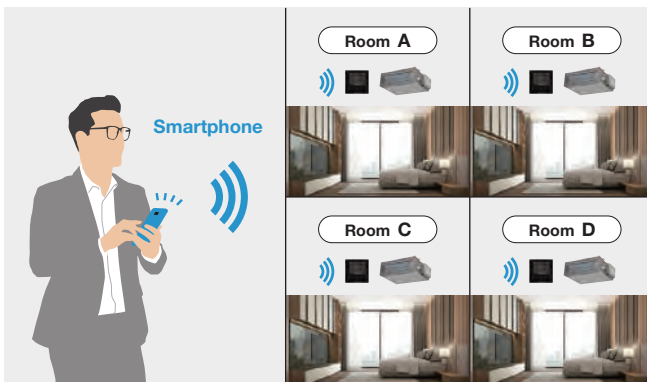
## Information screen

By looking at the information screen, you can check the current operating conditions at a glance.



## Central management by smart phone

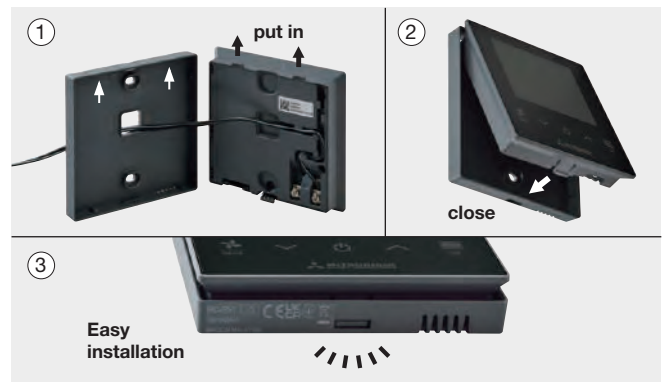
You can select and change the settings of multiple rooms with only one action on your smartphone.\*



\*The function would be available when the smartphone is connected to the remote control with Bluetooth® wireless technology.

## Easy installation with the new casing structure

The casing is separated into the lower and the upper case. By inserting the upper case into the lower case embedded to the wall, the remote could be easily installed.



## Easy to instinctively operate with simplified icons

Operation settings	Common settings	Display & sound settings
<p><b>MODE</b> <b>Operation mode</b> Heating / Cooling / Fan / Dry /Auto</p> <p><b>High power</b> ON / OFF</p> <p><b>Ventilation</b> ON / OFF</p> <p><b>Timer</b> Set ON / OFF timer by hour Set ON / OFF timer by clock</p> <p><b>Air direction</b> Upper / lower flap, Flap direction</p>	<p><b>Bluetooth</b> ON / OFF</p> <p><b>Pairing mode</b> Make a new Bluetooth pairing</p> <p><b>App QR code</b> QR code for the app</p>	<p><b>Brightness</b> 1-10</p> <p><b>Lighting time</b> 1-10</p> <p><b>Operation sound</b> Sound On / Sound Off</p>
Information screen		
<p><b>Temporary stop</b></p> <p><b>Thermo-off</b></p> <p><b>Fan operation</b></p> <p><b>Cooling test run</b></p> <p><b>Static pressure adjustment</b></p> <p><b>Dew drop prevention control</b></p> <p><b>Home leave operation</b></p>	<p><b>High power operation</b></p> <p><b>Eco operation</b></p> <p><b>Set temp. shift</b></p> <p><b>Warm up operation</b></p> <p><b>Heating preparation</b></p> <p><b>Defrost operation</b></p> <p><b>Outdoor silent operation</b></p>	<p><b>Motion sensor control</b></p> <p><b>Anti draft control</b></p> <p><b>Demand control</b></p> <p><b>Filter cleaning time</b></p> <p><b>Back-up control in operation</b></p> <p><b>Fault back-up control in operation</b></p> <p><b>Periodical check indication</b></p> <p><b>ON timer setting</b></p> <p><b>OFF timer setting</b></p> <p><b>Weekly timer setting</b></p> <p><b>Sleep timer setting</b></p>

\*The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by MITSUBISHI HEAVY INDUSTRIES THERMAL SYSTEMS, LTD. is under license. Other trademarks and trade names are those of their respective owners.\*

\*QR Code® is a registered trademark of DENSO WAVE INCORPORATED.

# Remote Control

Simple use with advanced settings REMOTE CONTROL

## RC-EX3D

### Function Switch

The function switch allows the user to select preferred two functions that are desired from the seven available functions shown. These functions can be used by simply pressing the button after they are set, allowing you to use your preferable functions immediately.



Function switch (F1)

Function switch (F2)

#### 1. Draft prevention ON/OFF



Anti draft can be turned ON/OFF with a single tap of the button.

#### 2. High Power Mode



High Power Mode achieve excessive cooling / heating capacity in 15 minutes to quickly adjust the room temperature to a comfortable level.

#### 3. Energy Saving Mode



Temperature is set to be optimized to save energy without losing comfort.

#### 4. Quiet Mode



Outdoor unit starts to operate quietly by activating this mode. The time of this mode can be set in conjunction with Indoor Silent Timer.

#### 5. Home Leave Mode



Home leave mode maintains the room temperature at a moderate level.

#### 6. Favourite Mode



Operation mode, set temperature, fan speed and air flow direction will automatically be adjusted to the programmed favourite setting.

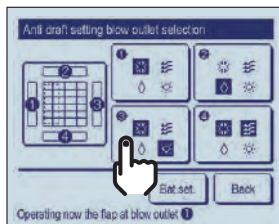
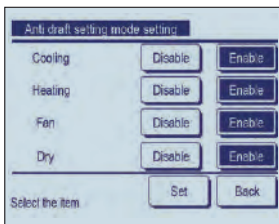
#### 7. Filter Sign



Announces the due time for cleaning the air filter.

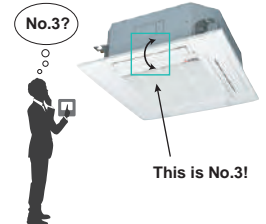
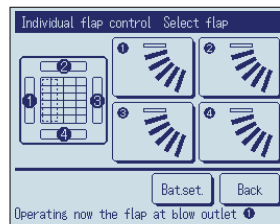
### Draft Prevention Setting (only FDT•FDTC series)

User can enable/disable the motion of Draft prevention panel for each air outlet for each operation mode. This function can be set while operating.



### Easy Adjustment of the Air Flow

User can visually confirm and set the direction of flaps using the visual display on the remote controller.

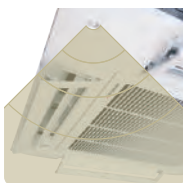


### Motion Sensor Control

Presence of humans and activity are detected by a motion sensor to perform various controls.

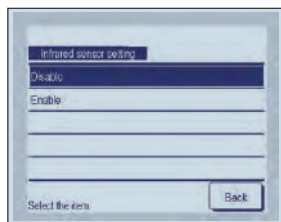
#### 1 Select Enable / Disable

##### Motion sensor control



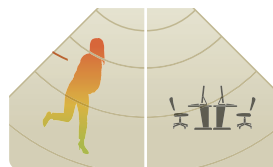
Enable/Disable

Select Enable/Disable for the motion sensor of the indoor unit connected to the R/C.

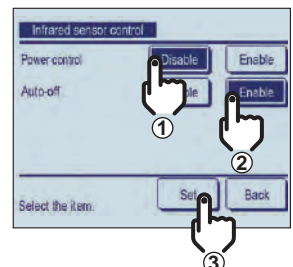


#### 2 Select Enable / Disable per control

- Power control
- Auto-off



Enable/Disable



## Additional Functions of External Input / Output

The external input/output of indoor unit by remote controller can set input/output based on user's demand.



Remote surveillance system



Card key on-off

### External Input

Two of the following could be selected

#### CNT, CNTA

- Input**
- Run / Stop
  - Permission/Prohibition
  - Cooling/Heating
  - Emergency Stop
  - Set temp. shift
  - Forced thermo-off
  - IU operation stop
  - Silent mode

### External Output

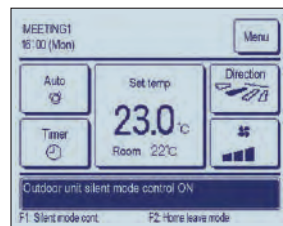
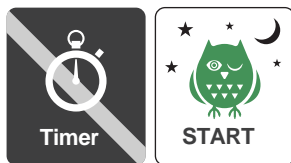
Four of the following could be selected

#### CNT

- Output**
- Operation
  - Heating
  - Compressor ON (thermo-ON)
  - Inspection
  - Cooling (defrosting)
  - Fan operation
  - Fan operation with Phi or Hi
  - Fan operation with Me or Lo
  - Defrosting (oil return in heating operation)
  - Ventilation
  - Heater ON
  - Free cooling
  - IU overload alarm

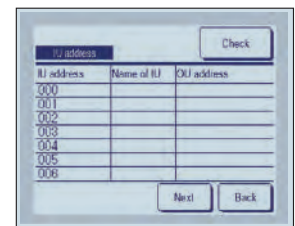
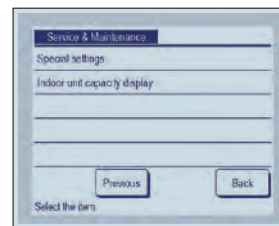
## Silent Mode Control

The Outdoor unit is controlled prioritising quiet operation. Silent mode control must be set to the F1 or F2 switch. User can start/stop the silent mode control with a single tap of a button.



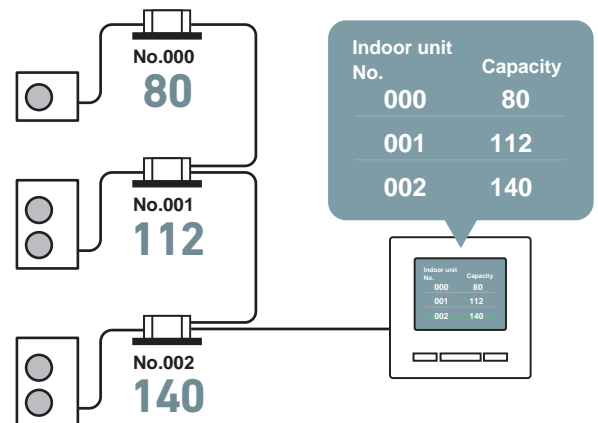
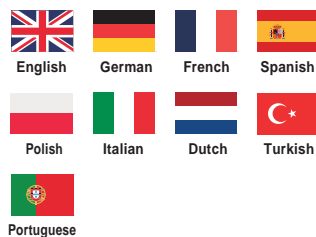
## Indoor Unit Capacity Display

Capacities of Indoor units connected to the RC-EX3D are displayed.



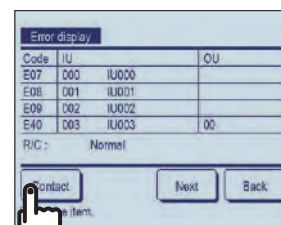
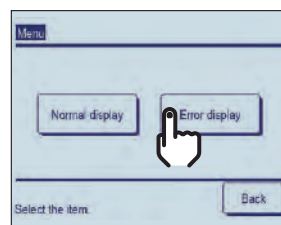
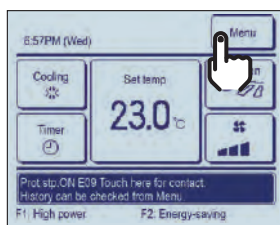
## Language Switching

User can select from the following languages and also switch them on the top display.




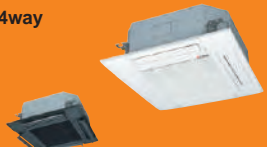
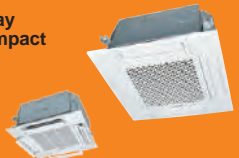





## Error display

**“Error”** If any error occurs on the air conditioner, the “Unit protection stop” is indicated on the message display.



# Product line up



## SINGLE SPLITS

<b>FD series</b> Type								
		HP	1.5	2.0	2.5	3.0	4.0	
		kW	4.0	5.0	6.0	7.1	10.0	
		Btu/h	13,600	17,100	20,500	24,200	34,100	
		kcal/h	3,440	4,300	5,160	6,100	8,600	
Ceiling Cassette	<b>FDT</b> P24 4way 	R32	1 Phase	●	●	●	●	●
			3 Phase					●
		R410A	1 Phase	●	●	●	●	●
			3 Phase					●
	<b>FDTC</b> P42 4way compact 	R32	1 Phase	●	●	●		
			3 Phase					
		R410A	1 Phase	●	●	●		
			3 Phase					
Duct Connected	<b>FDU</b> P50 High Static pressure 	R32	1 Phase				●	●
			3 Phase					●
		R410A	1 Phase				●	●
			3 Phase					●
	<b>FDUM</b> P60 Low/Middle Static pressure 	R32	1 Phase	●	●	●	●	●
			3 Phase					●
		R410A	1 Phase	●	●	●	●	●
			3 Phase					●
Wall Mounted	<b>SRK</b> P74 	R32	1 Phase				●	●
			3 Phase					●
		R410A	1 Phase					
			3 Phase					
Ceiling Suspended	<b>FDE</b> P82 	R32	1 Phase	●	●	●	●	●
			3 Phase					●
		R410A	1 Phase	●	●	●	●	●
			3 Phase					●
Floor Standing	<b>FDF</b> P96 	R32	1 Phase				●	●
			3 Phase					●
		R410A	1 Phase				●	●
			3 Phase					●



Combat Global Warming  
Please refer to Page 4

Capacity Range (Nominal Cooling Capacity)

		Micro Inverter 						Standard Inverter 			
5.0	6.0	4.0	5.0	6.0	8.0	10.0	12.0	3.0	3.5	4.0	5.0
12.5	14.0	10.0	12.5	13.6	20.0	25.0	27.0	7.1	9.0	10.0	12.1
42,700	47,800	34,100	42,700	46,400	68,200	85,300	92,100	24,200	30,700	34,100	41,300
10,750	12,040	8,600	10,750	11,690	17,200	21,500	23,200	6,100	7,740	8,600	10,404
●	●	●	●	●				●	●	●	●
●	●	●	●	●							
●	●	●	●	●				●	●	●	
●	●	●	●	●							
●	●	●	●	●				●	●	●	●
●	●	●	●	●	●	●	●				
●	●	●	●	●				●	●	●	
●	●	●	●	●	●	●					
●	●	●	●	●				●	●	●	●
●	●	●	●	●							
		●						●		●	
		●									
		●								●	
		●								●	
●	●	●	●	●				●	●	●	●
●	●	●	●	●							
●	●	●	●	●				●	●	●	
●	●	●	●	●							
●	●	●	●	●				●	●	●	
●	●	●	●	●							
●	●	●	●	●							

# Outdoor units

Our new advanced technology has high efficiency, strong heating and long piping. This contributes to the environmental protection through energy saving and permits installation of the units (4-6HP) considering a heating operation under temperature conditions down to -20°C. The Standard Inverter series offer optimised efficiency at a reasonable cost.

## Line up

HP	1.5	2	2.5	3	3.5	4	5	6	8	10	12
Hyper Inverter	●	●	●	●	-	●	●	●	-	-	-
Micro Inverter	-	-	-	-	-	●	●	●	●	●	●
Standard Inverter	-	-	-	●	●	●	●	-	-	-	-

## Hyper Inverter



SRC40ZSX-W1 (1.5HP)  
SRC50ZSX-W3 (2.0HP)  
SRC60ZSX-W3 (2.5HP)



FDC71VNX-W (3.0HP)



FDC100VNX/VSX-W (4.0HP)  
FDC125VNX/VSX-W (5.0HP)  
FDC140VNX/VSX-W (6.0HP)



SRC40ZSX-S (1.5HP)  
SRC50ZSX-S (2.0HP)  
SRC60ZSX-S (2.5HP)



FDC71VNX (3.0HP)



FDC100VNX/VSX (4.0HP)  
FDC125VNX/VSX (5.0HP)  
FDC140VNX/VSX (6.0HP)

## Micro Inverter



FDC100VNA-W/VSA-W (4.0HP)  
FDC125VNA-W/VSA-W (5.0HP)  
FDC140VNA-W/VSA-W (6.0HP)



FDC200VSA-W (8.0HP)  
FDC250VSA-W (10.0HP)  
FDC280VSA-W (12.0HP)



FDC100VNA/VSA (4.0HP)  
FDC125VNA/VSA (5.0HP)  
FDC140VNA/VSA (6.0HP)



FDC200VSA (8.0HP)



FDC250VSA (10.0HP)

## Standard Inverter



FDC71VNP-W (3.0HP)



FDC90VNP-W (3.5HP)  
FDC100VNP-W (4.0HP)



FDC125VNP-W (5.0HP)



FDC71VNP (3.0HP)



FDC90VNP1 (3.5HP)



FDC100VNP (4.0HP)

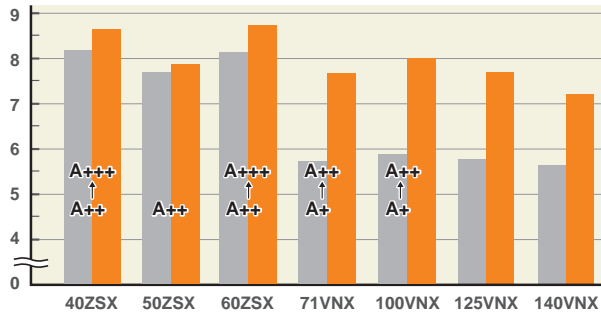


# High Efficiency

Outdoor units high efficiency levels are achieved thanks to our latest technologies, such as high efficient twin rotary compressors.

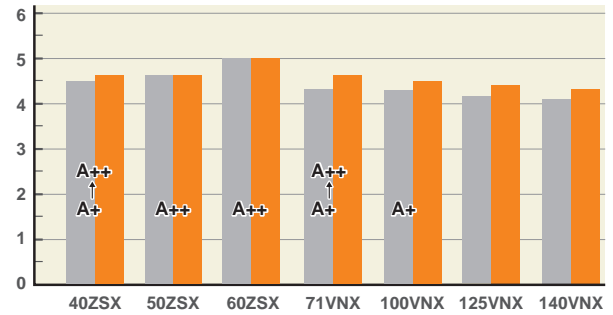
## SEER in cooling

■ Previous(VG(R410A)) ■ New(VH(R32))



## SCOP in heating

■ Previous(VG(R410A)) ■ New(VH(R32))



- In case of ceiling cassette 4way unit.

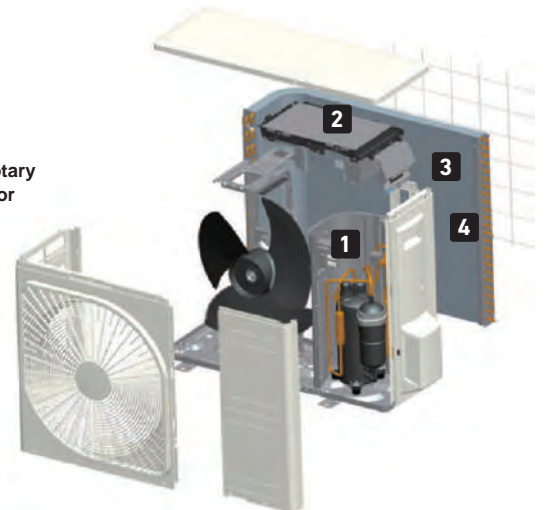
## Our Latest Technologies

### 1 High efficiency performance on the DC twin rotary compressors

Adoption of DC twin rotary compressor has enabled to utilize a high-speed range of up to 120 rps at the maximum to secure the required capacity.



DC twin rotary compressor



### 2 Vector inverter control

Optimum compressor control has been realized by employing the vector control\* and the starting current has been improved significantly compared with former models. Moreover, vibration has been reduced.

\* Vector control means a technique to realize an optimum control by converting the current wave to a smooth sinusoidal waveform

**Better partial load efficiency**

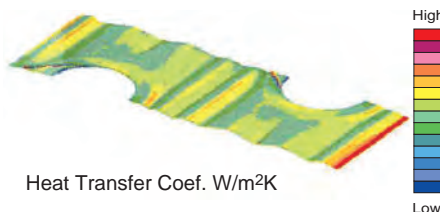
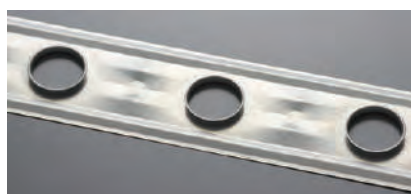
Distributed winding motor

Centralized winding motor

\* only R32 models

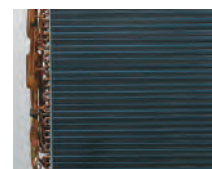
### 3 Heat exchanger

Thanks to changing fin configuration from flat sheet to M shape fin. This high dimensional structure provides optimum balance of heat transfer and airflow.



### 4 Blue fin

Due to application of blue coated fins (KS101) on the heat exchanger of the new outdoor unit, corrosion resistance has been improved compared to previous models.



Hyper Inverter	3-6HP
Micro Inverter	4-12HP
Standard Inverter	3.5-5HP

# Outdoor units

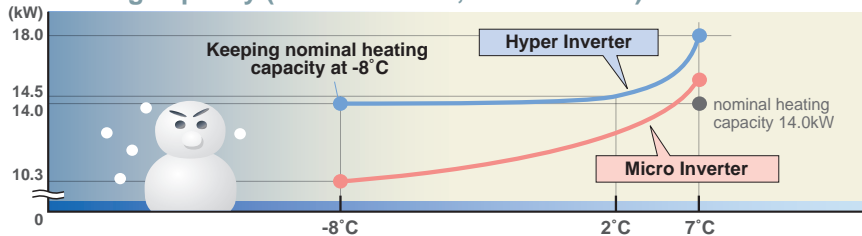
## Leading Powerful Heating Capacity

- The maximum heating capacity can be increased by:
- optimizing the refrigerant control and use of the electric expansion valve
  - Utilization of the twin rotary compressors
  - Nominal heating capacity can be reached when outdoor temperature is -8°C
  - Also effective to be used in cold areas

**Hyper Inverter**

Temperature of supply air can reach 40°C in 4 minutes after start up under low temperature operation conditions (at both indoor and outdoor temperature of 2°C) and can reach 50°C in 8 minutes after that.

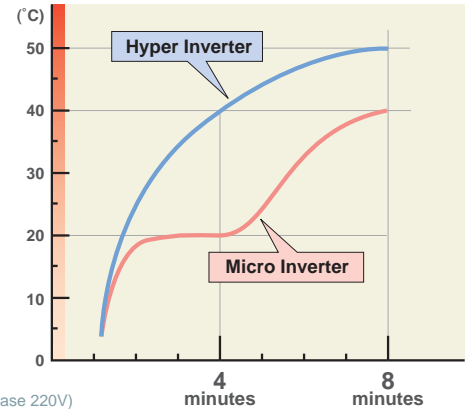
Heating capacity (in case of 5HP, 3Phase 380V)



model name	nominal heating capacity (kW at outdoor temperature of 7°C)	heating capacity at outdoor temperature of -8°C
FDC100VSX(4HP, 3Phase 380V)	11.2kW	11.2kW
FDC125VSX(5HP, 3Phase 380V)	14.0kW	14.0kW
FDC140VSX(6HP, 3Phase 380V)	16.0kW	16.0kW

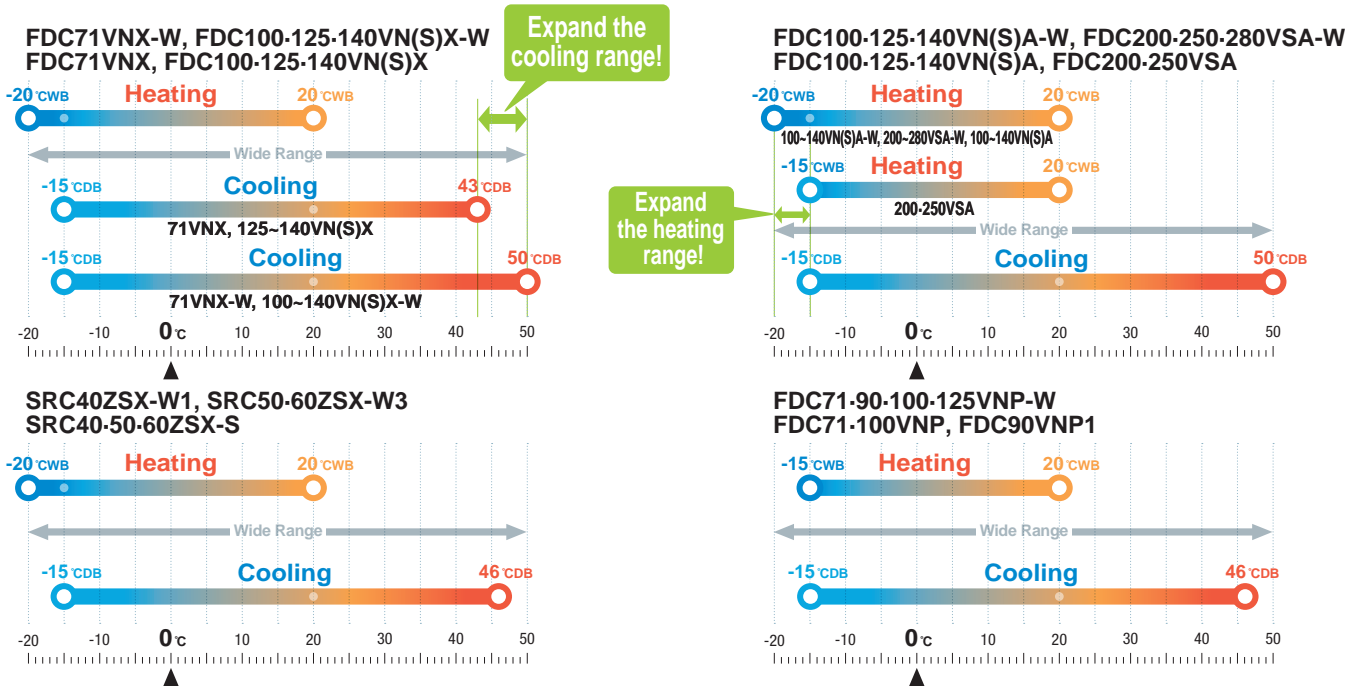
Please refer to our technical manual for installation conditions, operation range and heating/cooling capacities. (including 1Phase 220V)

Heating capacity



## Wide Range of Operation

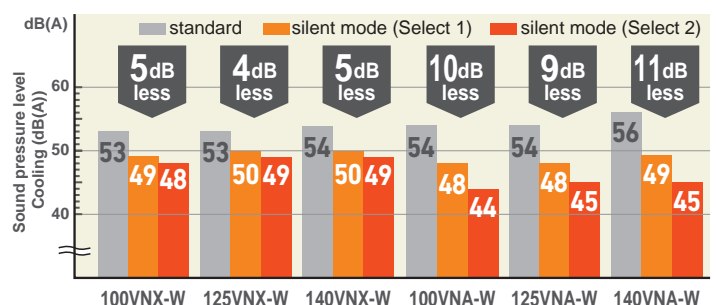
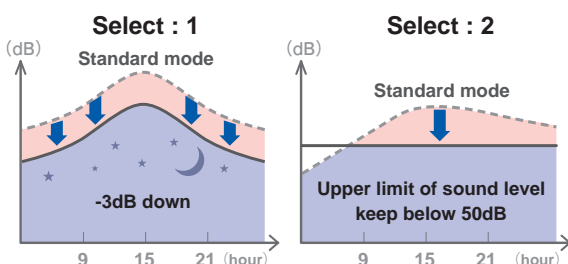
Our new advanced technology has expanded the heating and cooling operation range. This permits installation of the units under a low outdoor temperature conditions down to -15°C/-20°C in heating operation and -15°C in cooling operation.



## Silent Mode Operation

**Hyper / Micro Inverter**

Improved "silent mode" is possible, in two steps. ※ Applied on 4-6HP, 8-12HP(R32)



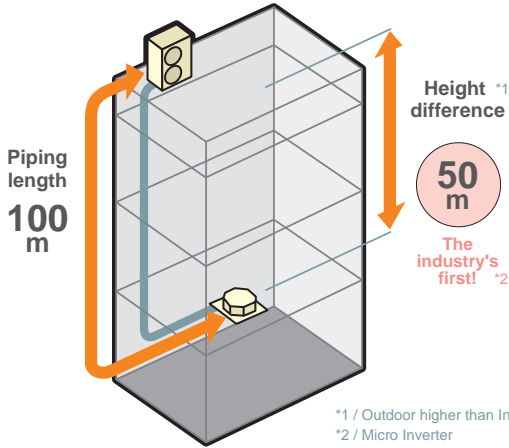
## Installation Workability

Enhanced installation workability thanks to the extended pipe length – longest level in the industry and precharged refrigerant.

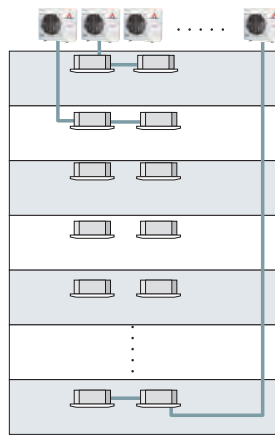
### Long piping

(in case of Hyper 4~6HP)

### Wider variation of installation!



\*1 / Outdoor higher than Indoor  
\*2 / Micro Inverter



Hyper Inverter		
HP	Piping length	Height difference
1.5 ~ 2.5	30m	20m
3	50m	30m
4~6(R32)	100m	50m
4~6(R410A)	100m	30m

### Micro Inverter

HP	Piping length	Height difference
4 ~ 6	50m	50m *3
8~10(R32)	70m	50m *4
8~10(R410A)	70m	30m
12	60m	50m *4

\*3 When the outdoor unit is installed at a position higher than the indoor unit by 30m or more, set SW5-2 on the control PCB to ON.

\*4 In case of following conditions: Max.50m (Outdoor unit is higher & Outdoor temperature ≤ 43°C), Max.30m (Outdoor unit is higher & Outdoor temperature > 43°C)

### Standard Inverter

HP	Piping length	Height difference
3 ~ 5	30m	20m

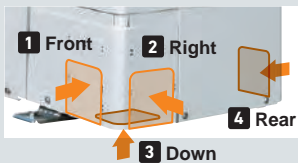
### Refrigerant precharged piping length extending to 30m

Refrigerant precharged piping length extends up to 30m. This eliminates the need to add refrigerant on site, which sets it free from trouble of excessive or insufficient charging of refrigerant, and allows carrying out the installation smoothly. ● Hyper inverter 1.5~2.5HP and Standard Inverter are up to 15m.

## Serviceability

Micro Inverter (8(R32)-10-12HP)

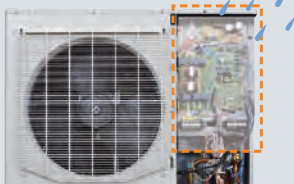
### Improved freedom of piping layout



Hole size becomes 120% bigger.

### A transparent rain cover

Attached as a standard for easy maintenance.



### Wire insertion holes for fall prevention



### 2 Layer Construction

Thanks to control box structure with 2 layer construction using hinge connection, service and maintenance has been made much easier for inverter components.



### Fixing screws to service panel

Decreasing number of screws from 5 to 2, installation & service speed is improved.

## Base heater kit (Option)

This kit is recommended to be used in an area where the lowest temperature drops below 0°C.



CW-H-E1

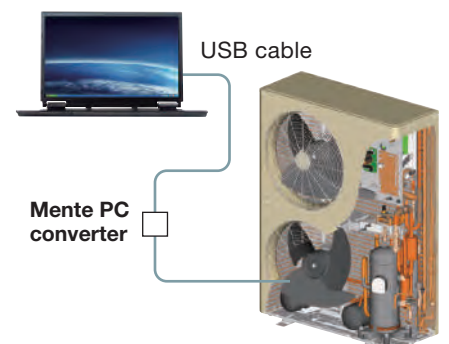
applied for



	FDC71VNX-W	FDC71VNX
Hyper Inverter	FDC100·125·140VNX-W	FDC100·125·140VNX
	FDC100·125·140VSX-W	FDC100·125·140VSX
Micro Inverter	FDC100·125·140VNA-W	FDC100·125·140VNA
	FDC100·125·140VSA-W	FDC100·125·140VSA
Standard Inverter	—	FDC100VNP

## Monitoring Function

To your PC monitoring and service tasks made simple with our service software ("Mente PC").

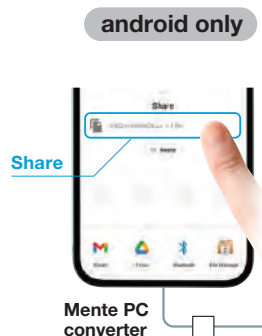


## Field service with smart device

Monitoring and service task could now be done with a smartphone or a tablet by connecting to the Mente PC converter.



The data collected via the smart device could also be sent and viewed with our service software Mente PC.

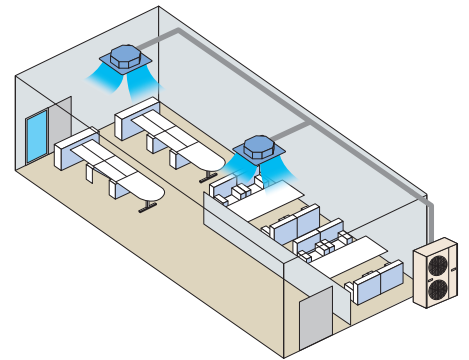


android only

# Outdoor units

## ■ MULTI SYSTEM

# Twin / Triple / Double Twin Multi System



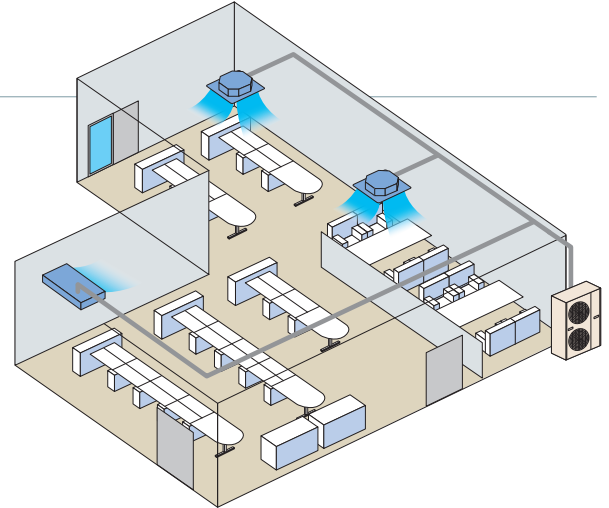
Up to four indoor units can be connected to a single outdoor unit and operated simultaneously with a single remote control. By referring to the following table for applicable indoor units, select the same models and capacities.

### Combination of indoor units

Outdoor Unit		Hyper Inverter				Micro Inverter						
FDC		71VNX-W	100VNX-W 100VSX-W	125VNX-W 125VSX-W	140VNX-W 140VSX-W	100VNA-W 100VSA-W	125VNA-W 125VSA-W	140VNA-W 140VSA-W	—	200VSA-W	250VSA-W	280VSA-W
		71VNX	100VNX 100VSX	125VNX 125VSX	140VNX 140VSX	100VNA 100VSA	125VNA 125VSA	140VNA 140VSA	200VSA	—	250VSA	—
Twin		40 + 40	50 + 50	60 + 60	71 + 71	50 + 50	60 + 60	71 + 71	100 + 100	100 + 100	125 + 125	140 + 140
Triple					50 + 50 + 50			50 + 50 + 50	71 + 71 + 71	71 + 71 + 71		
Double Twin									50+50+50+50	50+50+50+50	60+60+60+60	71+71+71+71

# V Multi System

Ideal for the installation in large areas and L-shaped rooms, the V Multi System has an extensive degree of flexibility in the selection of indoor units. Specifically, the selection of indoor units with different capacities in different types can be made.



### Combination of indoor units

Outdoor Unit		Hyper Inverter				Micro Inverter						
FDC		71VNX-W	100VNX-W 100VSX-W	125VNX-W 125VSX-W	140VNX-W 140VSX-W	100VNA-W 100VSA-W	125VNA-W 125VSA-W	140VNA-W 140VSA-W	—	200VSA-W	250VSA-W	280VSA-W
		71VNX	100VNX 100VSX	125VNX 125VSX	140VNX 140VSX	100VNA 100VSA	125VNA 125VSA	140VNA 140VSA	200VSA	—	250VSA	—
Twin		40 + 40	50 + 50	60 + 60 50 + 71	71 + 71	50 + 50	60 + 60 50 + 71	71 + 71	100 + 100 71 + 125	100 + 100 71 + 125	125 + 125	140 + 140
Triple					50 + 50 + 50			50 + 50 + 50	71 + 71 + 71	71 + 71 + 71	60+60+125 71+71+100	71+71+140
Double Twin									50+50+50+50	50+50+50+50	60+60+60+60	71+71+71+71

### Applicable indoor units

Model	Capacity						
	40	50	60	71	100	125	140
Twin / Triple Double Twin Multi System	FDT	●	●	●	●	●	●
	FDTC	●	●	●			
	FDUM	●	●	●	●	●	●
	SRK		●*1	●*1	●*2	●	

Model	Capacity						
	40	50	60	71	100	125	140
Twin / Triple Double Twin Multi System	FDE	●	●	●	●	●	●
	FDL				●	●	●
V Multi System	FDT	●	●	●	●	●	●
	FDE	●	●	●	●	●	●

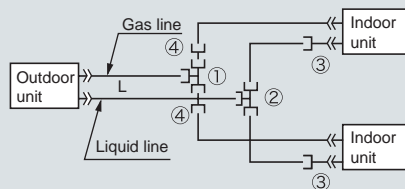
\* 1 Hyper Inverter model & Micro Inverter -W model only.  
 \* 2 Micro Inverter -W model combination only.

### Choice of piping specification

Diagrams below show the application as samples. For further information, refer to TECHNICAL MANUAL.

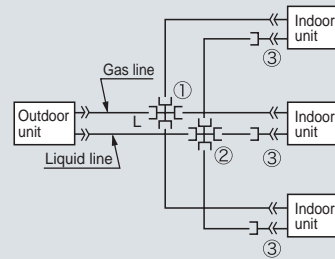
#### Twin type

Models FDC71, FDC100~140, FDC200, FDC250, FDC280  
 [Branch pipe set : DIS-WA1G, DIS-WB1G]



#### Triple type

Model FDC140, FDC200  
 [Branch pipe set : DIS-TA1G, DIS-TB1G]



The indoor\_outdoor piping length differences among indoor units are less than 3m.

### Chart of shapes of branch piping parts

Branching pipe set type	Outdoor unit	Indoor unit combinations	Symbol		
			Branching pipe set for a gas pipe	Branching pipe set for a liquid pipe	Different diameter pipe joint
DIS-WA1G (Two-way branching set)	FDC71	40+40	 1 piece	 1 piece	③ Joint A ID9.52 2 pieces Flare Joint (for indoor unit side connection)
	FDC100	50+50			
	FDC125	60+60			
	FDC140	71+71			
DIS-WB1G (Two-way branching set)	FDC200	100+100	 1 piece	 1 piece	④ Joint B OD15.88 2 pieces ID12.7
		71+125			
	FDC250 FDC280	125+125 140+140			
DIS-TA1G (Three-way branching set)	FDC140	50+50+50	 1 piece	 1 piece	③ Joint A ID9.52 3 pieces Flare Joint (for indoor unit side connection)
DIS-TB1G (Three-way branching set)	FDC200	71+71+71	 1 piece	 1 piece	③ Joint A ID9.52 2 pieces Flare joint(for indoor unit side connection) Joint B 1 piece OD15.88 ID12.7 Joint D 1 piece ID12.7 OD9.52

Symbol ① to ④ in the drawing shows the symbols of branch piping parts in the chart respectively.

Branch piping should always be arranged to have level or perpendicular position.

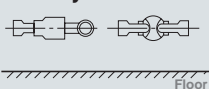
#### Notes

- (1)When 40-60 models of indoor units are applied to this combination, the reducer ③ supplied with the branch piping set should be used in order to reduce the liquid piping size from ø9.52mm to ø6.35mm at indoor unit side (flare connection). Accordingly be sure to select the liquid piping size ø9.52mm from branch to indoor unit.
- (2)The reducer ④ is for FDC71 and 100 models only.

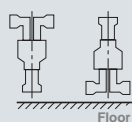
ID stands for inner diameter and OD, outer diameter.

The branch piping (both gas and liquid lines) should always be arranged to have a level or perpendicular position.

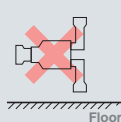
#### 2-Way Branch



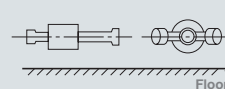
Mount — sections level with the floor.



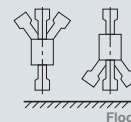
Mount — sections perpendicular to the floor.



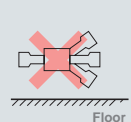
#### 3-Way Branch



Floor

























Floor




Floor

# Indoor units

## BENEFITS SUMMARY















		FDT	FDTc	FDU	FDUM	SRK	FDE	FDF	
									
<b>Energy-Saving</b> 	 <b>Inverter Technology</b> Inverter control technology delivers high efficiency and a smooth operation from high speed to low speed. A smooth sine voltage wave is attained.	●	●	●	●	●	●	●	
	 <b>Energy-Saving Operation *</b> Since the capacity is controlled automatically based on the outdoor temperature, energy can be saved without losing comfort.	●	●	●	●	●	●	●	●
	 <b>Motion Sensor *</b> This sensor detects human activity and shifts the temperature setting according to the amount of activity in the room.	● Option	● Option	● Option	● Option		● Option	● Option	
	 <b>Home Leave Operation</b> This function ensures that when the room is unoccupied for long periods of time, the unit will maintain a moderate indoor temperature, avoiding extremely hot or cool temperatures.	●	●	●	●	●	●	●	●
	 <b>Set Temperature Auto Return *</b> This function allows the user to program a preferred set temperature that the unit will return to each time it is operated.	●	●	●	●	●	●	●	●
<b>Comfort</b> 	 <b>Automatic Operation</b> This function automatically selects the required heating or cooling function based on the current room conditions.	●	●	●	●	●	●	●	
	 <b>Silent Operation</b> This function allows the user to program periods where the unit will operate with reduced noise levels, perfect for night time and an uninterrupted sleep.	●	●	●	●	●	●	●	
	 <b>Hi Power Operation</b> Use the high power function to quickly reach your optimum temperature level when you first turn on the unit. This function will operate for a maximum of 15 minutes before returning to normal operation.	●	●	●	●	●	●	●	●
<b>Air Flow</b> 	 <b>Flap Control System</b> This function allows the user to set the upper and lower limit positions of the flap at each air outlet individually, providing you with complete control over interior air flow.	●	●			●	●		
	 <b>Vertical Auto Swing</b> The vertical louvers on your unit will move up and down continuously during operation. This function allows you to set the up/down swing position of the louver to the preferred operation angle.	●	●			●	●	●	
	 <b>Draft Prevention Setting *</b> Draft Prevention setting provides a comfortable air flow without any draft feeling. Whether cooling or heating a room, the remote control can be used to instantly suppress any warm or cool drafts. This accurately assists how air flow is directed out of the indoor unit.	● Option	● Option						
	 <b>Automatic Fan Speed</b> The unit's on-board microcomputer continuously monitors the room's air temperature and adjusts the air flow automatically.	●	●	●	●	●	●	●	●

When using RC-EX3D (Remote control), functions with symbol  are available.

However, for RC-E5 (Remote control), functions with \* are not available.



FDT	FDTC	FDU	FDUM	SRK	FDE	FDF

		FDT	FDTC	FDU	FDUM	SRK	FDE	FDF
<b>Timer</b> 	 <b>Sleep Timer</b> This function allows the user to set a pre-determined amount of time between 30 and 240 minutes that your unit will operate for before switching off.	●	●	●	●	●	●	●
	 <b>Peak-Cut Timer *</b> This function lets the user to preset the capacity limit during certain periods of the day, minimising energy consumption during peak billing times, thus reducing operation costs.	●	●	●	●	●	●	●
	 <b>Weekly Timer</b> Set the unit to turn on and off automatically on a weekly basis to suit your usual room usage on each day.	●	●	●	●	●	●	●
<b>Convenience</b> 	 <b>Function Switch *</b> From the seven available functions on the unit, this function allows the user to set two functions to operate automatically.	●	●	●	●	●	●	●
	 <b>Favourite Setting *</b> Operation mode, set temperature, fan speed and air flow direction automatically adjust to the programmed favourite setting.	●	●	●	●	●	●	●
	 <b>Select the Language *</b> Set the language to be displayed on the remote control.	●	●	●	●	●	●	●
	 <b>Air Filter</b> The air filter in the unit traps and removes airborne dust particles and other allergens to provide you clean air.	●	●	Procure locally	● Option	●	●	●
	 <b>Filter Sign</b> This warning alerts when the filter needs to be cleaned.	●	●	●	●	●	●	●
	 <b>Outside Air Intake</b> This function provides clean fresh air into the room through the external air intake, avoiding the constant recycling of internal air.	●	●	●	●			
	 <b>Self Diagnostics</b> The internal microcomputer automatically runs a diagnostic of the system in the event of a malfunction. This enables authorised dealers to isolate and repair any issues.	●	●	●	●	●	●	●
<b>Others</b>	 <b>Built in Drain Pump</b> The built-in drain pump, allows greater flexibility with installation, offering a great solution for applications with limited space.	●	●	● *1	●			
	 <b>Improved Serviceability</b> The fan unit (comprised of impeller and motor) is easily accessible from either the side or bottom of the unit and can be slid out for easy maintenance.			●	●			

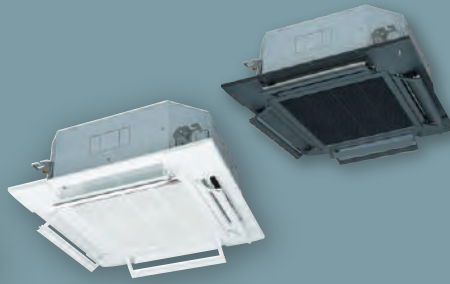
\*1 : Except 200 • 250 • 280

# FDT

## Indoor Unit Ceiling Cassette -4way-



FDT 40/50/60/71/100/125/140



Draft Prevention Panel (Option)



Energy Saving



Home Leave



Hi Power



Silent Operation



Flap Control



Favourite Setting



### Remote control (option)

#### Wired



RC-EX3D



RC-E5



RC-ES1



RCH-E3

#### Wireless



RCN-T-5BW-E2(White)  
RCN-T-5BB-E2(Black)

\*Not all functions available with all remote control options.

## Draft Prevention Panel (Option)

This prevents cold/hot draft being blown directly on the user. It is possible to set Draft Prevention Panel for each air outlet.



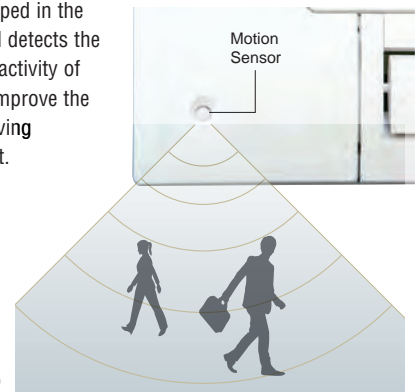
User can position panels by using the remote controller only (RC-EX3D, Wireless kit) when Draft Prevention Panel is available.

## Motion Sensor (Option)

Motion sensor is equipped in the corner of the panel and detects the presence/absence and activity of humans in a room to improve the comfort and energy saving performance of the unit.

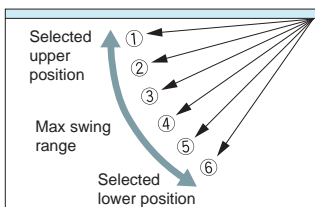


LB-T-5BW-E(White)  
LB-T-5BB-E(Black)



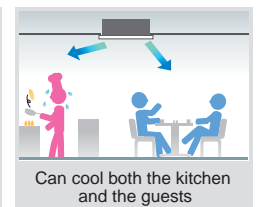
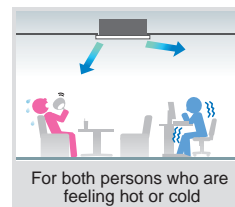
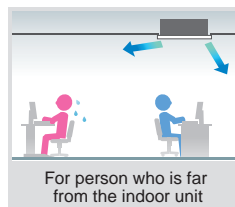
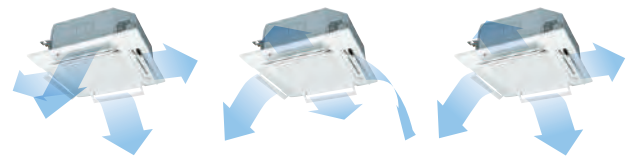
## Individual Flap Control System

According to room conditions, four directions of air flow can be controlled individually by utilizing the flap control system. Individual flap control is available even after installation.



Flap can swing within an upper and lower flap range position within can be selected with a wired remote control.

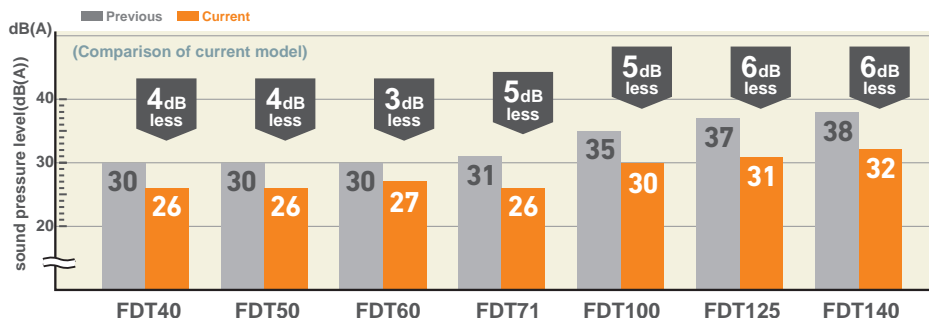
\* The wireless remote control is not applicable to the Individual flap control system.



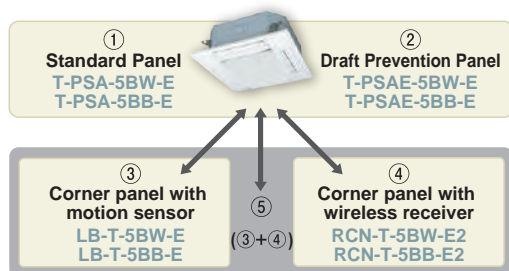


## Reduced Noise

New technology has achieved low noise (in cooling) while keeping capacity and comfort.



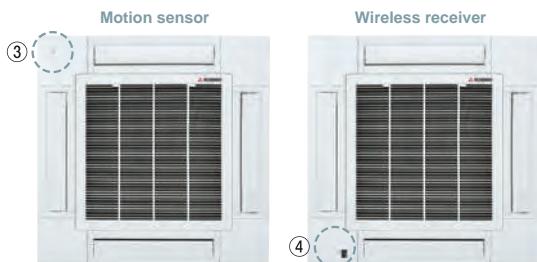
## Panel Select Pattern (Option)



8 patterns of panel are available.

- ① Standard Panel only
- ①+③ Standard Panel with corner panel with motion sensor
- ①+④ Standard Panel with corner panel with wireless receiver
- ①+⑤ Standard Panel with corner panel with motion sensor & corner panel with wireless receiver
- ② Draft Prevention Panel only
- ②+③ Draft Prevention Panel with corner panel with motion sensor
- ②+④ Draft Prevention Panel with corner panel with wireless receiver
- ②+⑤ Draft Prevention Panel with corner panel with motion sensor & corner panel with wireless receiver

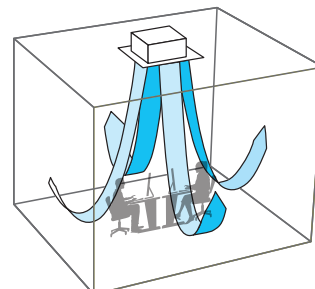
Installation position of Wireless kit and Motion sensor kit



\*Wireless receiver and Motion sensor can be installed to the position as shown

## Suitable for High ceilings

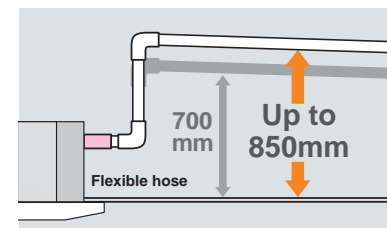
The Powerful blowout carries comfortable air flow to the floor even in high ceiling applications. It is ideal for high ceiling offices, stores, etc., with a wide, uniform air flow throughout the room.



## 850mm Drain Pump

Drain can be discharged upward by 850mm from the ceiling surface close to the indoor unit.

It allows a piping layout with a high degree of freedom depending on the installation location.



## OUTDOOR UNIT

		Hyper Inverter		
SRC • FDC		40ZSX-W1,50•60ZSX-W3	71VNX-W	100~140VN(S)X-W
		40~60ZSX-S	71VNX	100~140VN(S)X
model				
Chargeless		15m	30m	
Height x Width x Depth (mm)		640 x 800(+71) x 290	750 x 880(+88) x 340	1,300 x 970 x 370

		Micro Inverter			Standard Inverter		
FDC		100~140VN(S)A-W	—	200•250•280VSA-W	71VNP-W	90•100VNP-W	125VNP-W
		100~140VN(S)A	200VSA	250VSA	71VNP	90VNP1	100VNP
model							
Chargeless		30m			15m		
Height x Width x Depth (mm)		845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370

Easy and quick installation and maintenance

# Serviceability & Workability

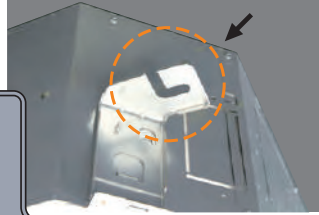
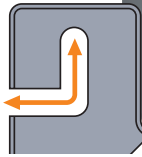
**Quick positioning !**

## Indoor unit is easily positioned and installed

**1** Adjustable easier positioning of unit by new slits. FDT

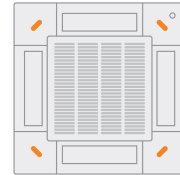
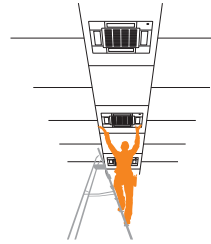
New shape of slit is suitable to install the unit with more flexibility, compatible with many kinds of suspending bolt pitch on site. Any rectangular or squared pitch of suspending bolts are available with this slit.

Compatible with both square or rectangular bolt pitch



**2** New slit in panel allows easier installation on site. FDT  
FDTC

Flexible positioning is available, which helps adjusting the direction of panel accordingly to lines or pattern on the ceiling.



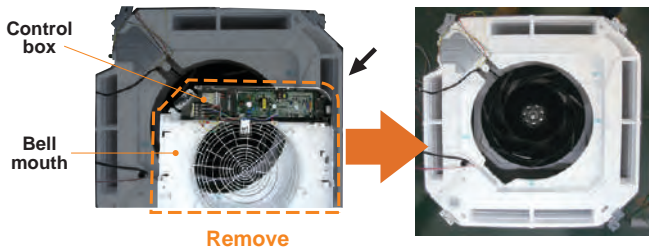
4 long slits are available.

## Quick installation and maintenance

**1** Easy access to component part for easy maintenance. FDT

1. The control box and bell mouth can be removed together.

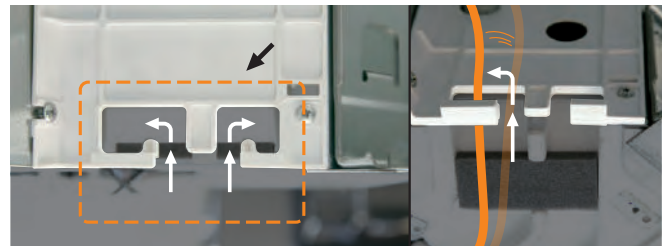
2. Easy access to impeller and fan motor.



Remove

**2** New shape of path of wiring. FDT

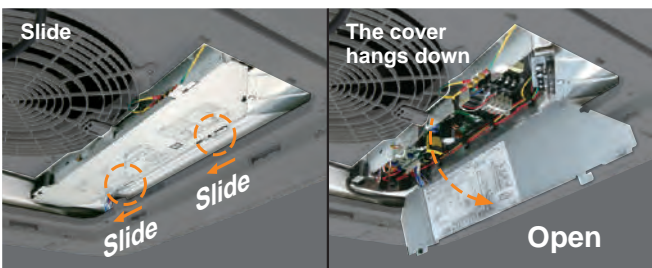
New shape of path gives easy wiring work for installation.



Easy wiring work

**3** No need to remove screws to open the controller cover. FDT

It is possible to loose and slide open the cover without removing the screws. This prevents the cover from falling and causing damage on site.

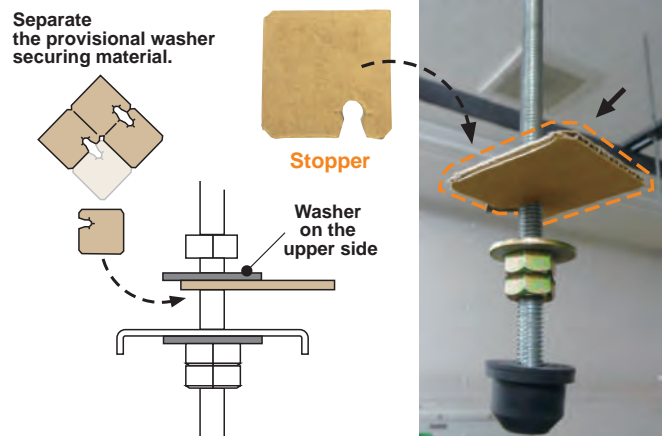


No need to remove screws



**4** Safer installation by stopper of washer FDT  
FDTC

When unit is installed with hook between washers, this stopper helps to install the unit safely, without adjusting washer.





Builder



Maintenance



FDT



FDTC

For smooth and easy working

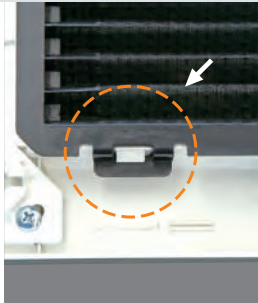
## Good help for installation and maintenance

### 1 Easy and flexible hook to remove the filter

FDT  
FDTC

Hook of soft material helps to remove the filter without dust spreading.

Press the filter tab to the outside and remove the filter.

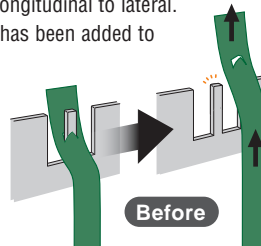


Soft material

### 2 Securely fix the corner lid by strap

FDT

The direction of the strap hook part has been changed from longitudinal to lateral. Furthermore, a barb has been added to the hook pin to prevent the strap from coming off.



After

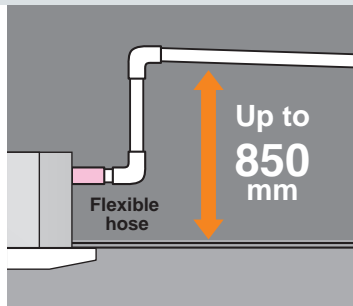
Easy to hook but not easy to loose

### 3 Drain-up-lift increases up to 850 mm

FDT  
FDTC

The drain can be lifted up to 850 mm from the ceiling surface.

	Previous	New
FDT	700	850
FDTC	600	850

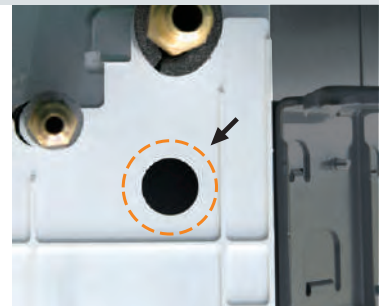


Up to 850 mm

### 4 New port to check drain water flow

FDT

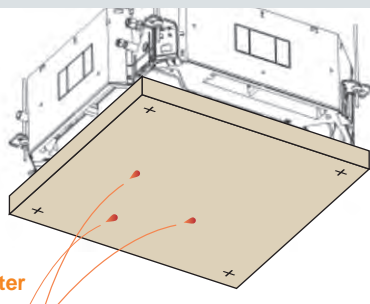
A water supply port has been provided in the piping lid for easier testing of the drain water flow. (The port is usually sealed with a rubber cap.)



### 5 Re-use of packages during construction work

FDT  
FDTC

Package material (carton) helps to protect the unit from unexpected welding spatter or dust on the new unit.

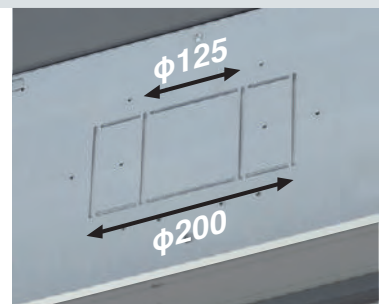
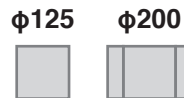


Spatter

### 6 More flexible outlet for ducting

FDT  
FDTC

Both  $\phi 125$  and  $\phi 200$  (oval shaped) are available.



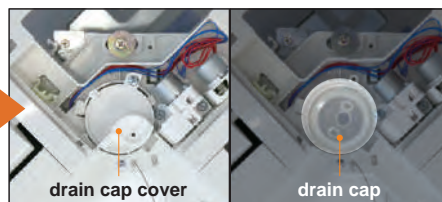
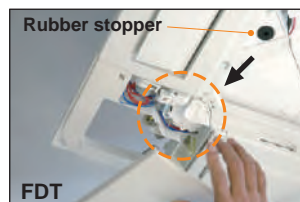
### 7 Easy check of drain pan

FDT  
FDTC

Easy inspection of the condition of the drain pan is possible by removing only the corner lid.

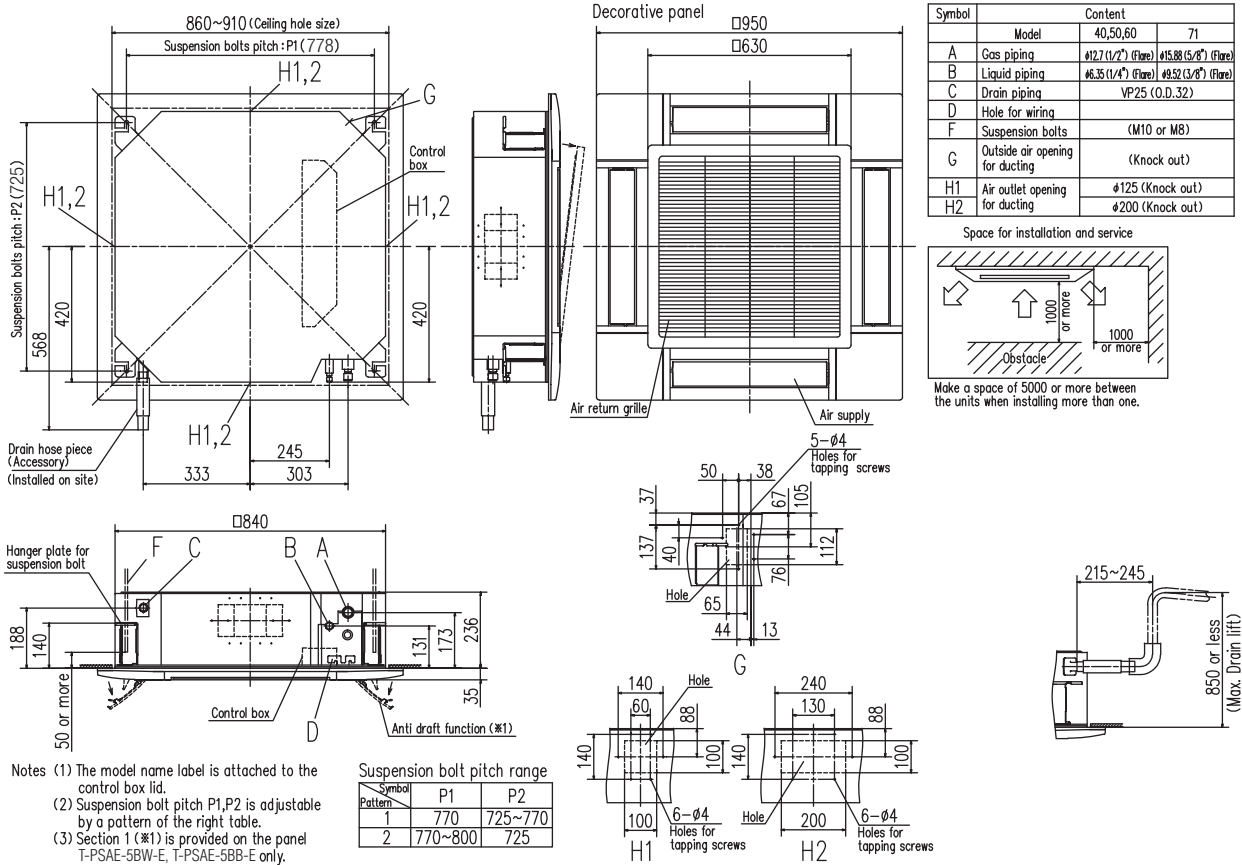
Remove corner lid. Remove drain cap cover and check the condition. It is necessary to clean-up, firstly remove the rubber stopper to drain water out and secondly remove the drain cap.

Clean up the area around the drain pump port.

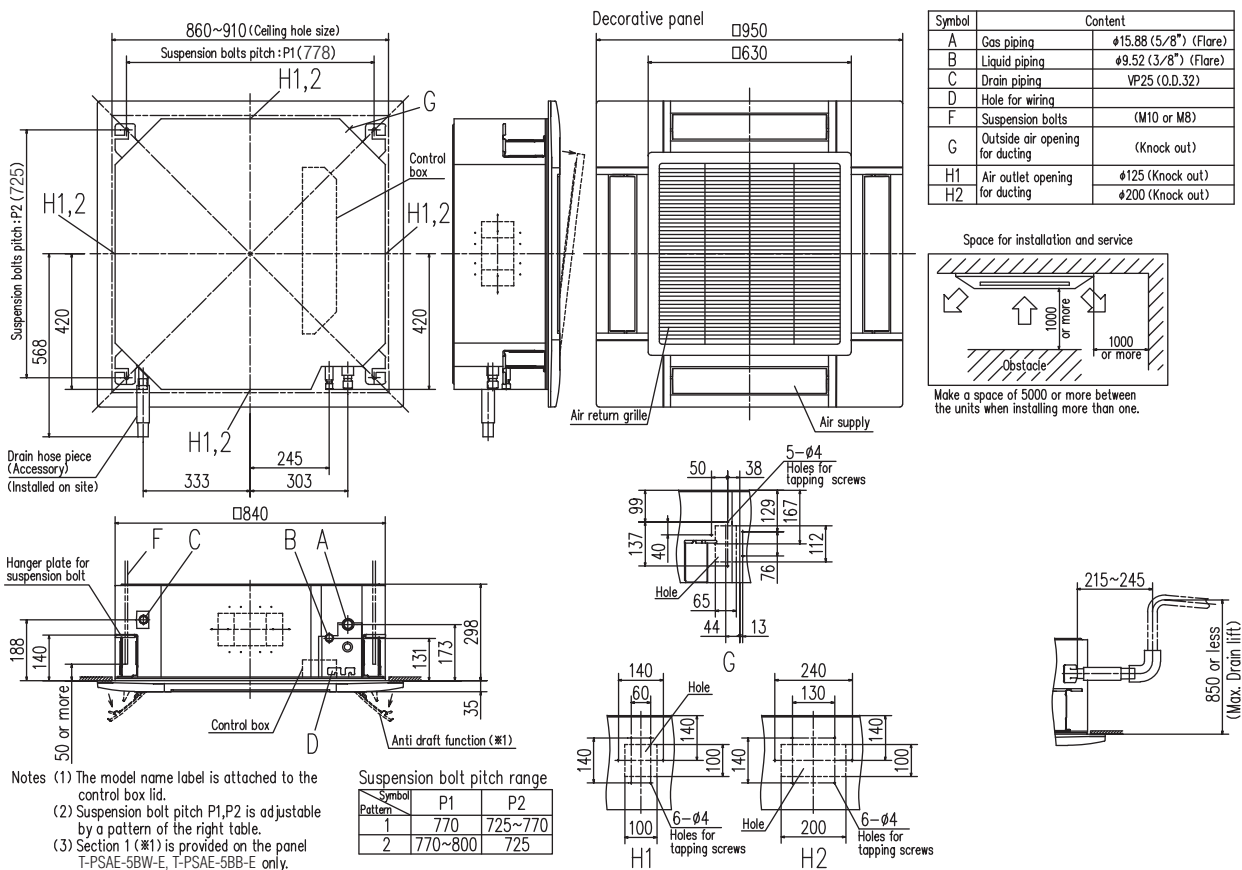


# DIMENSIONS (Unit:mm) - FDT -

## Models FDT40VH, 50VH, 60VH, 71VH



## Models FDT100VH, 125VH, 140VH



R32		Hyper Inverter			
Set model name		FDT40ZSXW1VH	FDT50ZSXW3VH	FDT60ZSXW3VH	FDT71VNXWVH
Indoor unit		FDT40VH	FDT50VH	FDT60VH	FDT71VH
Outdoor unit		SRC40ZSX-W1	SRC50ZSX-W3	SRC60ZSX-W3	FDC71VNX-W
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)		kW 4.0 (1.1 ~ 4.7)	5.0 (1.1 ~ 5.6)	5.6 (1.1 ~ 6.3)	7.1 (3.2 ~ 8.0)
Nominal heating capacity (Min~Max)		kW 4.5 (0.6 ~ 5.4)	5.4 (0.6 ~ 6.3)	6.7 (0.6 ~ 6.7)	8.0 (3.6 ~ 9.0)
Power consumption	Cooling/Heating	kW 0.890 / 1.03	1.29 / 1.31	1.33 / 1.56	1.69 / 1.75
EER/COP	Cooling/Heating	4.49 / 4.37	3.88 / 4.12	4.21 / 4.29	4.20 / 4.58
Inrush current	A	5	5	5	5
Max. current		15	15	15	19.1
Sound power level*1	Indoor	Cooling/Heating	50 / 50	55 / 56	58 / 59
	Outdoor	Cooling/Heating	63 / 62	63 / 62	65 / 65
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	36 / 33 / 30 / 26	41 / 33 / 30 / 26	44 / 34 / 30 / 27
		Heating (P-Hi/Hi/Me/Lo)	36 / 33 / 28 / 20	42 / 33 / 28 / 20	44 / 34 / 30 / 23
	Outdoor	Cooling/Heating	52 / 50	52 / 50	53 / 54
		Cooling/Heating	51 / 51		
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	19 / 16 / 13 / 10	22 / 16 / 13 / 10	26 / 17 / 14 / 11
		Heating (P-Hi/Hi/Me/Lo)	19 / 16 / 13 / 10	22 / 16 / 13 / 10	26 / 17 / 14 / 11
	Outdoor	Cooling/Heating	33 / 33	39 / 33	41.5 / 39
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950		
	Outdoor		640 x 800(+71) x 290	750 x 880(+88) x 340	
Net weight	Indoor	kg	24(Unit:19 Standard Panel:5)		26(Unit:21 Standard Panel:5)
	Outdoor		45	60	
Ref.piping size	Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")		9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length		m	Max.30		Max.50
Vertical height differences	Outdoor is higher/lower		Max.20 / Max.20		Max.30 / Max.15
Outdoor operating temperature range	Cooling	°CDB	-15~46*2		-15~50*2
	Heating	°CWB	-20~20		
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2		

R32		Hyper Inverter			
Set model name		FDT100VNXWVH	FDT125VNXWVH	FDT140VNXWVH	
Indoor unit		FDT100VH	FDT125VH	FDT140VH	
Outdoor unit		FDC100VNX-W	FDC125VNX-W	FDC140VNX-W	
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)		kW 10.0 (3.5 ~ 11.2)	12.5 (3.5 ~ 14.0)	14.0 (3.5 ~ 16.0)	
Nominal heating capacity (Min~Max)		kW 11.2 (2.7 ~ 12.5)	14.0 (2.7 ~ 17.0)	16.0 (2.7 ~ 18.0)	
Power consumption	Cooling/Heating	kW 2.28 / 2.48	3.21 / 3.43	3.87 / 4.20	
EER/COP	Cooling/Heating	4.38 / 4.52	3.89 / 4.08	3.62 / 3.81	
Inrush current	A	5	5	5	
Max. current		25	27	27	
Sound power level*1	Indoor	Cooling/Heating	62 / 62	63 / 64	
	Outdoor	Cooling/Heating	67 / 67	68 / 70	
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 30	48 / 41 / 39 / 31	
		Heating (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 29	48 / 41 / 38 / 31	
	Outdoor	Cooling/Heating	53 / 51	53 / 54	
		Cooling/Heating	54 / 54		
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	37 / 26 / 23 / 17	38 / 28 / 25 / 18	
		Heating (P-Hi/Hi/Me/Lo)	37 / 26 / 23 / 17	38 / 28 / 25 / 18	
	Outdoor	Cooling/Heating	100 / 100	100 / 100	
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950		
	Outdoor		1,300 x 970 x 370		
Net weight	Indoor	kg	30(Unit:25 Standard Panel:5)		
	Outdoor		97		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m	Max.100		
Vertical height differences	Outdoor is higher/lower		Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50*2		
	Heating	°CWB	-20~20		
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2		

**NOTES:**

The data are measured under the following conditions(ISO-T1, -H1).  
 Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
 \*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  
 \*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

## SPECIFICATIONS -FDT-

R32		Hyper Inverter		
Set model name		FDT100VSXWVH	FDT125VSXWVH	FDT140VSXWVH
Indoor unit		FDT100VH	FDT125VH	FDT140VH
Outdoor unit		FDC100VSX-W	FDC125VSX-W	FDC140VSX-W
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min-Max)	kW	10.0 ( 3.5 ~ 11.2 )	12.5 ( 3.5 ~ 14.0 )	14.0 ( 3.5 ~ 16.0 )
Nominal heating capacity (Min-Max)	kW	11.2 ( 2.7 ~ 16.0 )	14.0 ( 2.7 ~ 18.0 )	16.0 ( 2.7 ~ 20.0 )
Power consumption	Cooling/Heating	2.28 / 2.48	3.21 / 3.43	3.87 / 4.20
EER/COP	Cooling/Heating	4.38 / 4.52	3.89 / 4.08	3.62 / 3.81
Inrush current		5	5	5
Max. current		14	14	14
Sound power level*1	Indoor	Cooling/Heating	62 / 62	63 / 64
	Outdoor	Cooling/Heating	67 / 67	69 / 71
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 30	48 / 41 / 39 / 31
		Heating (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 29	48 / 41 / 38 / 31
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	37 / 26 / 23 / 17	38 / 28 / 25 / 18
		Heating (P-Hi/Hi/Me/Lo)	37 / 26 / 23 / 17	38 / 28 / 25 / 18
	Outdoor	Cooling/Heating	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950	
	Outdoor		1,300 x 970 x 370	
Net weight	Indoor		30(Unit:25 Standard Panel:5)	
	Outdoor		99	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length		m	Max.100	
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15	
Outdoor operating temperature range	Cooling	°CDB	-15~50*2	
	Heating	°CWB	-20~20	
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)	
Air filter, Q'ty			Pocket plastic net x 1(Washable)	
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2	

The values are for simultaneous Multi operation.

R32		Hyper Inverter				
Set model name		FDT71VNXWPVH	FDT100VNXWPVH	FDT125VNXWPVH	FDT140VNXWPVH	FDT140VNXWTVH
		Twin				Triple
Indoor unit		FDT40VH x 2	FDT50VH x 2	FDT60VH x 2	FDT71VH x 2	FDT50VH x 3
Outdoor unit		FDC71VNX-W	FDC100VNX-W	FDC125VNX-W	FDC140VNX-W	FDC140VNX-W
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min-Max)	kW	7.1 ( 3.2 ~ 8.0 )	10.0 ( 3.5 ~ 11.2 )	12.5 ( 3.5 ~ 14.0 )	14.0 ( 3.5 ~ 16.0 )	14.0 ( 3.5 ~ 16.0 )
Nominal heating capacity (Min-Max)	kW	8.0 ( 3.6 ~ 9.0 )	11.2 ( 2.7 ~ 12.5 )	14.0 ( 2.7 ~ 17.0 )	16.0 ( 2.7 ~ 18.0 )	16.0 ( 2.7 ~ 18.0 )
Power consumption	Cooling/Heating	1.61 / 1.83	2.30 / 2.64	2.98 / 3.03	3.44 / 3.64	3.48 / 3.74
EER/COP	Cooling/Heating	4.40 / 4.38	4.35 / 4.25	4.19 / 4.62	4.07 / 4.40	4.02 / 4.28
Inrush current		5	5	5	5	5
Max. current		19.1	25	27	27	27
Sound power level*1	Indoor*3	Cooling/Heating	50 / 50	55 / 56	58 / 59	59 / 60
	Outdoor	Cooling/Heating	66 / 66	67 / 67	68 / 70	69 / 71
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	36 / 33 / 30 / 26	41 / 33 / 30 / 26	44 / 34 / 30 / 27	46 / 34 / 31 / 26
		Heating (P-Hi/Hi/Me/Lo)	36 / 33 / 28 / 20	42 / 33 / 28 / 20	44 / 34 / 30 / 23	46 / 34 / 31 / 26
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	19 / 16 / 13 / 10	22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12
		Heating (P-Hi/Hi/Me/Lo)	19 / 16 / 13 / 10	22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12
	Outdoor	Cooling/Heating	60 / 50	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950			
	Outdoor		750 x 880(+88) x 340	1,300 x 970 x 370		
Net weight	Indoor		24(Unit:19 Standard Panel:5)		26(Unit:21 Standard Panel:5)	
	Outdoor		60		97	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length		m	Max. 50	Max. 100		
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15	Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50*2			
	Heating	°CWB	-20~20			
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)			
Air filter, Q'ty			Pocket plastic net x 1(Washable)			
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2			

### NOTES:

The data are measured under the following conditions(R32:ISO-T1,-H1 / R410A:ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

R32		Hyper Inverter				
Set model name		FDT100VSXWPVH	FDT125VSXWPVH	FDT140VSXWPVH	FDT140VSXWTVH	
		Twin		Triple		
Indoor unit		FDT50VH x 2	FDT60VH x 2	FDT71VH x 2	FDT50VH x 3	
Outdoor unit		FDC100VSX-W	FDC125VSX-W	FDC140VSX-W	FDC140VSX-W	
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)	kW	10.0 (3.5 ~ 11.2)	12.5 (3.5 ~ 14.0)	14.0 (3.5 ~ 16.0)	14.0 (3.5 ~ 16.0)	
Nominal heating capacity (Min~Max)	kW	11.2 (2.7 ~ 16.0)	14.0 (2.7 ~ 18.0)	16.0 (2.7 ~ 20.0)	16.0 (2.7 ~ 20.0)	
Power consumption	Cooling/Heating kW	2.30 / 2.64	2.98 / 3.03	3.44 / 3.64	3.48 / 3.74	
EER/COP	Cooling/Heating	4.35 / 4.25	4.19 / 4.62	4.07 / 4.40	4.02 / 4.28	
Inrush current	A	5	5	5	5	
Max. current		14	14	14	14	
Sound power level*1	Indoor <sup>+3</sup>	Cooling/Heating	55 / 56	58 / 59	59 / 60	55 / 56
	Outdoor	Cooling/Heating	67 / 67	68 / 70	69 / 71	69 / 71
Sound pressure level*1	Indoor <sup>+3</sup>	Cooling (P-Hi/Hi/Me/Lo)	41 / 33 / 30 / 26	44 / 34 / 30 / 27	46 / 34 / 31 / 26	41 / 33 / 30 / 26
		Heating (P-Hi/Hi/Me/Lo)	42 / 33 / 28 / 20	44 / 34 / 30 / 23	46 / 34 / 31 / 26	42 / 33 / 28 / 20
Air flow	Outdoor	Cooling/Heating	53 / 51	53 / 54	54 / 54	54 / 54
		Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo)	22 / 16 / 13 / 10 22 / 16 / 13 / 10	26 / 17 / 14 / 11 26 / 17 / 14 / 11	28 / 18 / 15 / 12 28 / 18 / 15 / 12	22 / 16 / 13 / 10 22 / 16 / 13 / 10
Exterior dimensions	Indoor Outdoor	HeightxWidthxDepth	mm	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950		
				1,300 x 970 x 370		
Net weight	Indoor Outdoor		kg	24(Unit:19 Standard Panel:5)	26(Unit:21 Standard Panel:5)	24(Unit:19 Standard Panel:5)
				99		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length		m	Max.100			
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15			
Outdoor operating temperature range	Cooling	°CDB	-15~50*2			
	Heating	°CWB	-20~20			
Panel	T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)					
Air filter, Q'ty	Pocket plastic net x 1(Washable)					
Remote control (option)	wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2					

R410A		Hyper Inverter				
Set model name		FDT40ZSXVH	FDT50ZSXVH	FDT60ZSXVH	FDT71VNXVH	
Indoor unit		FDT40VH	FDT50VH	FDT60VH	FDT71VH	
Outdoor unit		SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX	
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)	kW	4.0 (1.1 ~ 4.7)	5.0 (1.1 ~ 5.6)	5.6 (1.1 ~ 6.3)	7.1 (3.2 ~ 8.0)	
Nominal heating capacity (Min~Max)	kW	4.5 (0.6 ~ 5.4)	5.4 (0.6 ~ 6.3)	6.7 (0.6 ~ 7.1)	8.0 (3.6 ~ 9.0)	
Power consumption	Cooling/Heating kW	0.93 / 1.03	1.29 / 1.31	1.52 / 1.56	1.96 / 1.91	
EER/COP	Cooling/Heating	4.30 / 4.37	3.88 / 4.12	3.68 / 4.29	3.62/4.19	
Inrush current	A	5	5	5	5	
Max. current		12	15	15	17	
Sound power level*1	Indoor	Cooling/Heating	50 / 50	55 / 56	58 / 59	59 / 60
	Outdoor	Cooling/Heating	63 / 63	63 / 63	65 / 64	66 / 66
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	36 / 33 / 30 / 26	41 / 33 / 30 / 26	44 / 34 / 30 / 27	46 / 34 / 31 / 26
		Heating (P-Hi/Hi/Me/Lo)	36 / 33 / 28 / 20	42 / 33 / 28 / 20	44 / 34 / 30 / 23	46 / 34 / 31 / 26
Air flow	Outdoor	Cooling/Heating	50 / 49	50 / 49	52 / 52	51 / 48
		Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo)	19 / 16 / 13 / 10 19 / 16 / 13 / 10	22 / 16 / 13 / 10 22 / 16 / 13 / 10	26 / 17 / 14 / 11 26 / 17 / 14 / 11	28 / 18 / 15 / 12 28 / 18 / 15 / 12
Exterior dimensions	Indoor Outdoor	HeightxWidthxDepth	mm	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950		
				640 x 800(+71) x 290		750 x 880(+88) x 340
Net weight	Indoor Outdoor		kg	24(Unit:19 Standard Panel:5)	26(Unit:21 Standard Panel:5)	
				45		
Ref.piping size	Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")			
Refrigerant line (one way) length		m	Max.30			
Vertical height differences	Outdoor is higher/lower	m	Max.20 / Max.20			
Outdoor operating temperature range	Cooling	°CDB	-15~46*2			
	Heating	°CWB	-20~20			
Panel	T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)					
Air filter, Q'ty	Pocket plastic net x 1(Washable)					
Remote control (option)	wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2					

## SPECIFICATIONS -FDT-

R410A			Hyper Inverter		
Set model name			FDT100VNXVH	FDT125VNXVH	FDT140VNXVH
Indoor unit			FDT100VH	FDT125VH	FDT140VH
Outdoor unit			FDC100VNX	FDC125VNX	FDC140VNX
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)			10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)			11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 17.0 )	16.0 ( 4.0 ~ 18.0 )
Power consumption			2.50 / 2.58	3.42 / 3.43	4.58 / 4.20
EER/COP			4.00 / 4.34	3.65 / 4.08	3.06 / 3.81
Inrush current			5	5	5
Max. current			24	26	26
Sound power level*1	Indoor	Cooling/Heating	62 / 62	63 / 64	63 / 64
	Outdoor	Cooling/Heating	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 30	48 / 41 / 39 / 31	48 / 42 / 39 / 32
		Heating (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 29	48 / 41 / 38 / 31	48 / 41 / 38 / 31
	Outdoor	Cooling/Heating	48 / 50	48 / 50	49 / 52
		Cooling/Heating	37 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	37 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19
	Outdoor	Cooling/Heating	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950		
	Outdoor		1,300 x 970 x 370		
Net weight	Indoor		30(Unit:25 Standard Panel:5)		
	Outdoor		105		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length			Max.100		
Vertical height differences			Max.30 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~43*2		
	Heating	°CWB	-20~20		
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2		

R410A			Hyper Inverter		
Set model name			FDT100VSXVH	FDT125VSXVH	FDT140VSXVH
Indoor unit			FDT100VH	FDT125VH	FDT140VH
Outdoor unit			FDC100VSX	FDC125VSX	FDC140VSX
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)			11.2 ( 4.0 ~ 16.0 )	14.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )
Power consumption			2.50 / 2.58	3.42 / 3.43	4.58 / 4.20
EER/COP			4.00 / 4.34	3.65 / 4.08	3.06 / 3.81
Inrush current			5	5	5
Max. current			15	15	15
Sound power level*1	Indoor	Cooling/Heating	62 / 62	63 / 64	63 / 64
	Outdoor	Cooling/Heating	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 30	48 / 41 / 39 / 31	48 / 42 / 39 / 32
		Heating (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 29	48 / 41 / 38 / 31	48 / 41 / 38 / 31
	Outdoor	Cooling/Heating	48 / 50	48 / 50	49 / 52
		Cooling/Heating	37 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	37 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19
	Outdoor	Cooling/Heating	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950		
	Outdoor		1,300 x 970 x 370		
Net weight	Indoor		30(Unit:25 Standard Panel:5)		
	Outdoor		105		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length			Max.100		
Vertical height differences			Max.30 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~43*2		
	Heating	°CWB	-20~20		
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2		

### NOTES:

The data are measured under the following conditions(ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)



The values are for simultaneous Multi operation.

R410A		Hyper Inverter				
Set model name		FDT71VNXPVH	FDT100VNXPVH	FDT125VNXPVH	FDT140VNXPVH	FDT140VNXTVH
		Twin			Triple	
Indoor unit		FDT40VH x 2	FDT50VH x 2	FDT60VH x 2	FDT71VH x 2	FDT50VH x 3
Outdoor unit		FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	FDC140VNX
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)	kW	7.1 ( 3.2 ~ 8.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)	kW	8.0 ( 3.6 ~ 9.0 )	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 17.0 )	16.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 18.0 )
Power consumption	Cooling/Heating	1.85 / 1.99	2.56 / 2.67	3.26 / 3.22	3.88 / 3.74	3.93 / 4.00
EER/COP	Cooling/Heating	3.84 / 4.02	3.91 / 4.19	3.83 / 4.35	3.61 / 4.28	3.56 / 4.00
Inrush current	A	5	5	5	5	5
Max. current		17	24	26	26	26
Sound power level*1	Indoor <sup>3</sup>	Cooling/Heating	50 / 50	55 / 56	58 / 59	59 / 60
	Outdoor	Cooling/Heating	66 / 66	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor <sup>3</sup>	Cooling (P-Hi/Hi/Me/Lo)	36 / 33 / 30 / 26	41 / 33 / 30 / 26	44 / 34 / 30 / 27	46 / 34 / 31 / 26
		Heating (P-Hi/Hi/Me/Lo)	36 / 33 / 28 / 20	42 / 33 / 28 / 20	44 / 34 / 30 / 23	46 / 34 / 31 / 26
Air flow	Outdoor	Cooling/Heating	51 / 48	48 / 50	48 / 50	49 / 52
		Cooling (P-Hi/Hi/Me/Lo)	19 / 16 / 13 / 10	22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950		
				750 x 880(+88) x 340 1,300 x 970 x 370		
Net weight	Indoor	kg	24(Unit:19 Standard Panel:5)		24(Unit:19 Standard Panel:5)	
			60		105	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length		m	Max. 50	Max. 100		
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°CDB	-15~43*2			
	Heating	°CWB	-20~20			
Panel	T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)					
Air filter, Q'ty	Pocket plastic net x 1(Washable)					
Remote control (option)	wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2					

The values are for simultaneous Multi operation.

R410A		Hyper Inverter			
Set model name		FDT100VXSXPVH	FDT125VXSXPVH	FDT140VXSXPVH	FDT140VXSXTVH
		Twin		Triple	
Indoor unit		FDT50VH x 2	FDT60VH x 2	FDT71VH x 2	FDT50VH x 3
Outdoor unit		FDC100VVSX	FDC125VVSX	FDC140VVSX	FDC140VVSX
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)	kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)	kW	11.2 ( 4.0 ~ 16.0 )	14.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )	16.0 ( 4.0 ~ 20.0 )
Power consumption	Cooling/Heating	2.56 / 2.67	3.26 / 3.22	3.88 / 3.74	3.93 / 4.00
EER/COP	Cooling/Heating	3.91 / 4.19	3.83 / 4.35	3.61 / 4.28	3.56 / 4.00
Inrush current	A	5	5	5	5
Max. current		15	15	15	15
Sound power level*1	Indoor <sup>3</sup>	Cooling/Heating	55 / 56	58 / 59	59 / 60
	Outdoor	Cooling/Heating	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor <sup>3</sup>	Cooling (P-Hi/Hi/Me/Lo)	41 / 33 / 30 / 26	44 / 34 / 30 / 27	46 / 34 / 31 / 26
		Heating (P-Hi/Hi/Me/Lo)	42 / 33 / 28 / 20	44 / 34 / 30 / 23	46 / 34 / 31 / 26
Air flow	Outdoor	Cooling/Heating	48 / 50	48 / 50	49 / 52
		Cooling (P-Hi/Hi/Me/Lo)	22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950	
				1,300 x 970 x 370	
Net weight	Indoor	kg	24(Unit:19 Standard Panel:5)		24(Unit:19 Standard Panel:5)
			60		105
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m	Max.100		
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~43*2		
	Heating	°CWB	-20~20		
Panel	T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)				
Air filter, Q'ty	Pocket plastic net x 1(Washable)				
Remote control (option)	wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2				

## SPECIFICATIONS -FDT-

R32		Micro Inverter		
Set model name		FDT100VNAVH	FDT125VNAVH	FDT140VNAVH
Indoor unit		FDT100VH	FDT125VH	FDT140VH
Outdoor unit		FDC100VNA-W	FDC125VNA-W	FDC140VNA-W
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min-Max)		kW 10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)
Nominal heating capacity (Min-Max)		kW 11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)
Power consumption		Cooling/Heating kW 2.73 / 2.54	4.05 / 3.59	4.79 / 4.18
EER/COP		Cooling/Heating 3.66 / 4.41	3.09 / 3.90	2.84 / 3.71
Inrush current		A 5	5	5
Max. current		A 24	24	24
Sound power level*1	Indoor	Cooling/Heating 62 / 62	63 / 64	63 / 64
	Outdoor	Cooling/Heating 69 / 70	71 / 71	72 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo) 47 / 39 / 36 / 30	48 / 41 / 39 / 31	48 / 42 / 39 / 32
	Outdoor	Heating (P-Hi/Hi/Me/Lo) 47 / 39 / 36 / 29	48 / 41 / 38 / 31	48 / 41 / 38 / 31
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo) m <sup>3</sup> /min 37 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19
	Outdoor	Heating (P-Hi/Hi/Me/Lo) 37 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19
Exterior dimensions	Indoor	HeightxWidthxDepth mm	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950	
	Outdoor	845 x 970 x 370		
Net weight	Indoor	kg	30(Unit:25 Standard Panel:5)	
	Outdoor	77		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length		m	Max.50	
Vertical height differences		Outdoor is higher/lower m	Max.50 / Max.15	
Outdoor operating temperature range	Cooling	°CDB	-15~50*2	
	Heating	°CWB	-20~20	
Panel		T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)		
Air filter, Q'ty		Pocket plastic net x 1(Washable)		
Remote control (option)		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2		

R32		Micro Inverter		
Set model name		FDT100VSAVH	FDT125VSAVH	FDT140VSAVH
Indoor unit		FDT100VH	FDT125VH	FDT140VH
Outdoor unit		FDC100VSA-W	FDC125VSA-W	FDC140VSA-W
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min-Max)		kW 10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)
Nominal heating capacity (Min-Max)		kW 11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)
Power consumption		Cooling/Heating kW 2.73 / 2.54	4.05 / 3.59	4.79 / 4.18
EER/COP		Cooling/Heating 3.66 / 4.41	3.09 / 3.90	2.84 / 3.71
Inrush current		A 5	5	5
Max. current		A 15	15	15
Sound power level*1	Indoor	Cooling/Heating 62 / 62	63 / 64	63 / 64
	Outdoor	Cooling/Heating 69 / 70	71 / 71	72 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo) 47 / 39 / 36 / 30	48 / 41 / 39 / 31	48 / 42 / 39 / 32
	Outdoor	Heating (P-Hi/Hi/Me/Lo) 47 / 39 / 36 / 29	48 / 41 / 38 / 31	48 / 41 / 38 / 31
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo) m <sup>3</sup> /min 37 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19
	Outdoor	Heating (P-Hi/Hi/Me/Lo) 37 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19
Exterior dimensions	Indoor	HeightxWidthxDepth mm	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950	
	Outdoor	845 x 970 x 370		
Net weight	Indoor	kg	30(Unit:25 Standard Panel:5)	
	Outdoor	78		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length		m	Max.50	
Vertical height differences		Outdoor is higher/lower m	Max.50 / Max.15	
Outdoor operating temperature range	Cooling	°CDB	-15~50*2	
	Heating	°CWB	-20~20	
Panel		T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)		
Air filter, Q'ty		Pocket plastic net x 1(Washable)		
Remote control (option)		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2		

### NOTES:

The data are measured under the following conditions(ISO-T1, -H1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

R32		Micro Inverter				
Set model name		FDT100VNAVPVH	FDT125VNAVPVH	FDT140VNAVPVH	FDT140VNAVTVH	
		Twin		Triple		
Indoor unit		FDT50VH x 2	FDT60VH x 2	FDT71VH x 2	FDT50VH x 3	
Outdoor unit		FDC100VNA-W	FDC125VNA-W	FDC140VNA-W	FDC140VNA-W	
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)	kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)	13.6 (5.0 ~ 14.5)	
Nominal heating capacity (Min~Max)	kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)	15.5 (4.0 ~ 16.5)	
Power consumption	Cooling/Heating	2.82 / 2.73	3.79 / 3.31	4.22 / 3.57	4.22 / 3.57	
EER/COP	Cooling/Heating	3.55 / 4.11	3.30 / 4.23	3.22 / 4.34	3.22 / 3.88	
Inrush current	A	5	5	5	5	
Max. current		24	24	24	24	
Sound power level*1	Indoor <sup>3</sup>	Cooling/Heating	55 / 56	58 / 59	59 / 60	55 / 56
	Outdoor	Cooling/Heating	69 / 70	71 / 71	72 / 73	72 / 73
Sound pressure level*1	Indoor <sup>3</sup>	Cooling (P-Hi/Hi/Me/Lo)	41 / 33 / 30 / 26	44 / 34 / 30 / 27	46 / 34 / 31 / 26	41 / 33 / 30 / 26
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	42 / 33 / 28 / 20	44 / 34 / 30 / 23	46 / 34 / 31 / 26	42 / 33 / 28 / 20
Air flow	Indoor <sup>3</sup>	Cooling/Heating	54 / 55	54 / 56	56 / 58	56 / 58
	Outdoor	Cooling (P-Hi/Hi/Me/Lo)	22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12	22 / 16 / 13 / 10
Exterior dimensions	Indoor	HeightsWidthxDepth	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950			
	Outdoor		845 x 970 x 370			
Net weight	Indoor		24(Unit:19 Standard Panel:5)	26(Unit:21 Standard Panel:5)	24(Unit:19 Standard Panel:5)	
	Outdoor		77			
Ref.piping size	Liquid/Gas		9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length			Max.50			
Vertical height differences	Outdoor is higher/lower		Max.50 / Max.15			
Outdoor operating temperature range	Cooling	°CDB	-15~50*2			
	Heating	°CWB	-20~20			
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)			
Air filter, Q'ty			Pocket plastic net x 1(Washable)			
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2			

The values are for simultaneous Multi operation.

R32		Micro Inverter				
Set model name		FDT100VSAVPVH	FDT125VSAVPVH	FDT140VSAVPVH	FDT140VSAVTVH	
		Twin		Triple		
Indoor unit		FDT50VH x 2	FDT60VH x 2	FDT71VH x 2	FDT50VH x 3	
Outdoor unit		FDC100VSA-W	FDC125VSA-W	FDC140VSA-W	FDC140VSA-W	
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)	kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)	13.6 (5.0 ~ 14.5)	
Nominal heating capacity (Min~Max)	kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)	15.5 (4.0 ~ 16.5)	
Power consumption	Cooling/Heating	2.82 / 2.73	3.79 / 3.31	4.22 / 3.57	4.22 / 3.57	
EER/COP	Cooling/Heating	3.55 / 4.11	3.30 / 4.23	3.22 / 4.34	3.22 / 3.88	
Inrush current	A	5	5	5	5	
Max. current		15	15	15	15	
Sound power level*1	Indoor <sup>3</sup>	Cooling/Heating	55 / 56	58 / 59	59 / 60	55 / 56
	Outdoor	Cooling/Heating	69 / 70	71 / 71	72 / 73	72 / 73
Sound pressure level*1	Indoor <sup>3</sup>	Cooling (P-Hi/Hi/Me/Lo)	41 / 33 / 30 / 26	44 / 34 / 30 / 27	46 / 34 / 31 / 26	41 / 33 / 30 / 26
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	42 / 33 / 28 / 20	44 / 34 / 30 / 23	46 / 34 / 31 / 26	42 / 33 / 28 / 20
Air flow	Indoor <sup>3</sup>	Cooling/Heating	54 / 55	54 / 56	56 / 58	56 / 58
	Outdoor	Cooling (P-Hi/Hi/Me/Lo)	22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12	22 / 16 / 13 / 10
Exterior dimensions	Indoor	HeightsWidthxDepth	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950			
	Outdoor		845 x 970 x 370			
Net weight	Indoor		24(Unit:19 Standard Panel:5)	26(Unit:21 Standard Panel:5)	24(Unit:19 Standard Panel:5)	
	Outdoor		78			
Ref.piping size	Liquid/Gas		9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length			Max.50			
Vertical height differences	Outdoor is higher/lower		Max.50 / Max.15			
Outdoor operating temperature range	Cooling	°CDB	-15~50*2			
	Heating	°CWB	-20~20			
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)			
Air filter, Q'ty			Pocket plastic net x 1(Washable)			
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2			

## SPECIFICATIONS -FDT-

The values are for simultaneous Multi operation.

R32		Micro Inverter			
Set model name		FDT200VSAWPVH	FDT250VSAWPVH	FDT280VSAWPVH	
		Twin			
Indoor unit		FDT100VH x 2	FDT125VH x 2	FDT140VH x 2	
Outdoor unit		FDC200VSA-W	FDC250VSA-W	FDC280VSA-W	
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)	kW	20.0 ( 6.8 ~ 22.4 )	25.0 ( 6.8 ~ 28.0 )	27.0 ( 7.5 ~ 31.5 )	
Nominal heating capacity (Min~Max)	kW	22.4 ( 6.6 ~ 25.0 )	28.0 ( 5.7 ~ 31.5 )	30.0 ( 6.3 ~ 33.5 )	
Power consumption	Cooling/Heating	5.48 / 5.27	8.20 / 7.37	9.11 / 8.95	
EER/COP	Cooling/Heating	3.65 / 4.25	3.05 / 3.80	2.96 / 3.35	
Inrush current	A	5	5	5	
Max. current		19	20	20	
Sound power level*1	Indoor <sup>+3</sup>	Cooling/Heating	62 / 62	63 / 64	63 / 64
	Outdoor	Cooling/Heating	72 / 74	73 / 75	75 / 77
Sound pressure level*1	Indoor <sup>+3</sup>	Cooling (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 30	48 / 41 / 39 / 31	48 / 42 / 39 / 32
		Heating (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 29	48 / 41 / 38 / 31	48 / 41 / 38 / 31
Air flow	Indoor <sup>+3</sup>	Cooling (P-Hi/Hi/Me/Lo)	37 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19
	Outdoor	Cooling/Heating	37 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950		
	Outdoor		1,505 x 970 x 370		
Net weight	Indoor	kg	30(Unit:25 Standard Panel:5)		
	Outdoor		144	145	155
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 22.22(7/8")		
Refrigerant line (one way) length		m	Max.70		Max.60
Vertical height differences	Outdoor is higher/lower	m	Max.50*4 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50*2		
	Heating	°CWB	-20~20		
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2		

The values are for simultaneous Multi operation.

R32		Micro Inverter			
Set model name		FDT200VSAWTVH	FDT200VSAWDVH	FDT250VSAWDVH	FDT280VSAWDVH
		Triple			
Indoor unit		FDT71VH x 3	FDT50VH x 4	FDT60VH x 4	FDT71VH x 4
Outdoor unit		FDC200VSA-W	FDC200VSA-W	FDC250VSA-W	FDC280VSA-W
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)	kW	20.0 ( 7.6 ~ 22.4 )	20.0 ( 6.8 ~ 22.4 )	25.0 ( 5.2 ~ 28.0 )	27.0 ( 7.5 ~ 31.5 )
Nominal heating capacity (Min~Max)	kW	22.4 ( 6.6 ~ 25.0 )	22.4 ( 6.6 ~ 25.0 )	28.0 ( 7.2 ~ 31.5 )	30.0 ( 6.3 ~ 33.5 )
Power consumption	Cooling/Heating	5.56 / 5.27	5.78 / 5.80	7.30 / 6.80	7.77 / 8.60
EER/COP	Cooling/Heating	3.60 / 4.25	3.46 / 3.86	3.42 / 4.12	3.47 / 3.49
Inrush current	A	5	5	5	5
Max. current		19	19	20	20
Sound power level*1	Indoor <sup>+3</sup>	Cooling/Heating	59 / 60	55 / 56	58 / 59
	Outdoor	Cooling/Heating	72 / 74	72 / 74	73 / 75
Sound pressure level*1	Indoor <sup>+3</sup>	Cooling (P-Hi/Hi/Me/Lo)	46 / 34 / 31 / 26	41 / 33 / 30 / 26	44 / 34 / 30 / 27
		Heating (P-Hi/Hi/Me/Lo)	46 / 34 / 31 / 26	42 / 33 / 28 / 20	44 / 34 / 30 / 23
Air flow	Indoor <sup>+3</sup>	Cooling (P-Hi/Hi/Me/Lo)	28 / 18 / 15 / 12	22 / 16 / 13 / 10	26 / 17 / 14 / 11
	Outdoor	Cooling/Heating	28 / 18 / 15 / 12	22 / 16 / 13 / 10	26 / 17 / 14 / 11
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950		
	Outdoor		1,505 x 970 x 370		
Net weight	Indoor	kg	26(Unit:21 Standard Panel:5)		26(Unit:21 Standard Panel:5)
	Outdoor		144	145	155
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 22.22(7/8")		
Refrigerant line (one way) length		m	Max.70		Max.60
Vertical height differences	Outdoor is higher/lower	m	Max.50*4 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50*2		
	Heating	°CWB	-20~20		
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2		

### NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / , R410A:ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

\*4 : In case of following conditions:Max.50m(Outdoor unit is higher & Outdoor temperature ≤ 43°C), Max.30m(Outdoor unit is higher & Outdoor temperature > 43°C)

R410A		Micro Inverter		
Set model name		FDT100VNAVH	FDT125VNAVH	FDT140VNAVH
Indoor unit		FDT100VH	FDT125VH	FDT140VH
Outdoor unit		FDC100VNA	FDC125VNA	FDC140VNA
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)	kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)	kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption	Cooling/Heating kW	2.73 / 2.64	4.05 / 3.74	5.09 / 4.43
EER/COP	Cooling/Heating	3.26 / 4.26	3.09 / 3.74	2.67 / 3.50
Inrush current		5	5	5
Max. current		24	24	24
Sound power level*1	Indoor	Cooling/Heating	62 / 62	63 / 64
	Outdoor	Cooling/Heating	70 / 70	73 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 30	48 / 41 / 39 / 31
		Heating (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 29	48 / 41 / 38 / 31
	Outdoor	Cooling/Heating	54 / 56	55 / 57
				57 / 59
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	37 / 26 / 23 / 17	38 / 28 / 25 / 18
		Heating (P-Hi/Hi/Me/Lo)	37 / 26 / 23 / 17	38 / 28 / 25 / 18
	Outdoor	Cooling/Heating	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950	
	Outdoor		845 x 970 x 370	
Net weight	Indoor		30(Unit:25 Standard Panel:5)	
	Outdoor		80	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length		m	Max.50	
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15	
Outdoor operating temperature range	Cooling	°CDB	-15~50*2	
	Heating	°CWB	-20~20	
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)	
Air filter, Q'ty			Pocket plastic net x 1(Washable)	
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2	

R410A		Micro Inverter		
Set model name		FDT100VSAVH	FDT125VSAVH	FDT140VSAVH
Indoor unit		FDT100VH	FDT125VH	FDT140VH
Outdoor unit		FDC100VSA	FDC125VSA	FDC140VSA
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)	kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)	kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption	Cooling/Heating kW	2.73 / 2.63	4.05 / 3.74	5.09 / 4.43
EER/COP	Cooling/Heating	3.66 / 4.26	3.09 / 3.74	2.67 / 3.50
Inrush current		5	5	5
Max. current		15	15	15
Sound power level*1	Indoor	Cooling/Heating	62 / 62	63 / 64
	Outdoor	Cooling/Heating	70 / 70	73 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 30	48 / 41 / 39 / 31
		Heating (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 29	48 / 41 / 38 / 31
	Outdoor	Cooling/Heating	54 / 56	55 / 57
				57 / 59
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	37 / 26 / 23 / 17	38 / 28 / 25 / 18
		Heating (P-Hi/Hi/Me/Lo)	37 / 26 / 23 / 17	38 / 28 / 25 / 18
	Outdoor	Cooling/Heating	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950	
	Outdoor		845 x 970 x 370	
Net weight	Indoor		30(Unit:25 Standard Panel:5)	
	Outdoor		82	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length		m	Max.50	
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15	
Outdoor operating temperature range	Cooling	°CDB	-15~50*2	
	Heating	°CWB	-20~20	
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)	
Air filter, Q'ty			Pocket plastic net x 1(Washable)	
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2	

## SPECIFICATIONS -FDT-

The values are for simultaneous Multi operation.

R410A		Micro Inverter				
Set model name		FDT100VNAPVH	FDT125VNAPVH	FDT140VNAPVH	FDT140VNATVH	
		Twin		Triple		
Indoor unit		FDT50VH x 2	FDT60VH x 2	FDT71VH x 2	FDT50VH x 3	
Outdoor unit		FDC100VNA	FDC125VNA	FDC140VNA	FDC140VNA	
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)	kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )	13.6 ( 5.0 ~ 14.5 )	
Nominal heating capacity (Min~Max)	kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )	15.5 ( 4.0 ~ 16.5 )	
Power consumption	Cooling/Heating	2.82 / 2.90	3.79 / 3.31	4.22 / 3.72	4.22 / 3.29	
EER/COP	Cooling/Heating	3.55 / 3.86	3.30 / 4.23	3.22 / 4.17	3.22 / 4.71	
Inrush current		5	5	5	5	
Max. current		24	24	24	24	
Sound power level*1	Indoor <sup>3</sup>	Cooling/Heating	55 / 56	58 / 59	59 / 60	55 / 56
	Outdoor	Cooling/Heating	70 / 70	71 / 71	73 / 73	73 / 73
Sound pressure level*1	Indoor <sup>3</sup>	Cooling (P-Hi/Hi/Me/Lo)	41 / 33 / 30 / 26	44 / 34 / 30 / 27	46 / 34 / 31 / 26	41 / 33 / 30 / 26
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	42 / 33 / 28 / 20	44 / 34 / 30 / 23	46 / 34 / 31 / 26	42 / 33 / 28 / 20
Air flow	Indoor <sup>3</sup>	Cooling/Heating	54 / 56	55 / 57	57 / 59	57 / 59
	Outdoor	Cooling (P-Hi/Hi/Me/Lo)	22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12	22 / 16 / 13 / 10
		Heating (P-Hi/Hi/Me/Lo)	22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12	22 / 16 / 13 / 10
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950			
	Outdoor		845 x 970 x 370			
Net weight	Indoor		24(Unit:19 Standard Panel:5)	26(Unit:21 Standard Panel:5)	24(Unit:19 Standard Panel:5)	
	Outdoor		80			
Ref.piping size	Liquid/Gas		9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length			Max.50			
Vertical height differences	Outdoor is higher/lower		Max.50 / Max.15			
Outdoor operating temperature range	Cooling	°CDB	-15~50*2			
	Heating	°CWB	-20~20			
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)			
Air filter, Q'ty			Pocket plastic net x 1(Washable)			
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2			

The values are for simultaneous Multi operation.

R410A		Micro Inverter				
Set model name		FDT100VSAPVH	FDT125VSAPVH	FDT140VSAPVH	FDT140VSATVH	
		Twin		Triple		
Indoor unit		FDT50VH x 2	FDT60VH x 2	FDT71VH x 2	FDT50VH x 3	
Outdoor unit		FDC100VSA	FDC125VSA	FDC140VSA	FDC140VSA	
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)	kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )	13.6 ( 5.0 ~ 14.5 )	
Nominal heating capacity (Min~Max)	kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )	15.5 ( 4.0 ~ 16.5 )	
Power consumption	Cooling/Heating	2.82 / 2.90	3.79 / 3.31	4.22 / 3.72	4.22 / 3.29	
EER/COP	Cooling/Heating	3.55 / 3.86	3.30 / 4.23	3.22 / 4.17	3.22 / 4.71	
Inrush current		5	5	5	5	
Max. current		15	15	15	15	
Sound power level*1	Indoor <sup>3</sup>	Cooling/Heating	55 / 56	58 / 59	59 / 60	55 / 56
	Outdoor	Cooling/Heating	70 / 70	71 / 71	73 / 73	73 / 73
Sound pressure level*1	Indoor <sup>3</sup>	Cooling (P-Hi/Hi/Me/Lo)	41 / 33 / 30 / 26	44 / 34 / 30 / 27	46 / 34 / 31 / 26	41 / 33 / 30 / 26
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	42 / 33 / 28 / 20	44 / 34 / 30 / 23	46 / 34 / 31 / 26	42 / 33 / 28 / 20
Air flow	Indoor <sup>3</sup>	Cooling/Heating	54 / 56	55 / 57	57 / 59	57 / 59
	Outdoor	Cooling (P-Hi/Hi/Me/Lo)	22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12	22 / 16 / 13 / 10
		Heating (P-Hi/Hi/Me/Lo)	22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12	22 / 16 / 13 / 10
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950			
	Outdoor		845 x 970 x 370			
Net weight	Indoor		24(Unit:19 Standard Panel:5)	26(Unit:21 Standard Panel:5)	24(Unit:19 Standard Panel:5)	
	Outdoor		82			
Ref.piping size	Liquid/Gas		9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length			Max.50			
Vertical height differences	Outdoor is higher/lower		Max.50 / Max.15			
Outdoor operating temperature range	Cooling	°CDB	-15~50*2			
	Heating	°CWB	-20~20			
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)			
Air filter, Q'ty			Pocket plastic net x 1(Washable)			
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2			

### NOTES:

The data are measured under the following conditions(R410A : ISO-T1 ).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

R410A			Micro Inverter		
Set model name			FDT200VSAPVH		FDT250VSAPVH
			Twin		
Indoor unit			FDT100VH x 2		FDT125VH x 2
Outdoor unit			FDC200VSA		FDC250VSA
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)	kW		19.0 ( 5.2 ~ 22.4 )		24.0 ( 6.9 ~ 28.0 )
Nominal heating capacity (Min~Max)	kW		22.4 ( 3.3 ~ 25.0 )		27.0 ( 5.5 ~ 31.5 )
Power consumption	Cooling/Heating	kW	6.25 / 6.02		8.36 / 7.15
EER/COP	Cooling/Heating		3.04 / 3.72		2.87 / 3.78
Inrush current		A	5		5
Max. current			20		21
Sound power level*1	Indoor <sup>3</sup>	Cooling/Heating	62 / 62		63 / 64
	Outdoor	Cooling/Heating	72 / 74		73 / 75
Sound pressure level*1	Indoor <sup>3</sup>	Cooling (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 30		48 / 41 / 39 / 31
		Heating (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 29		48 / 41 / 38 / 31
Air flow	Indoor <sup>3</sup>	Cooling/Heating	58 / 59		59 / 62
	Outdoor	Cooling/Heating	37 / 26 / 23 / 17		38 / 28 / 25 / 18
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950		
	Outdoor		1,300 x 970 x 370		1,505 x 970 x 370
Net weight	Indoor		30(Unit:25 Standard Panel:5)		
	Outdoor		115		143
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 22.22(7/8")		12.7(1/2") / 22.22(7/8")
Refrigerant line (one way) length		m	Max.70		
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50*2		
	Heating	°CWB	-15~20		
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2		

The values are for simultaneous Multi operation.

R410A			Micro Inverter		
Set model name			FDT200VSATVH		FDT250VSADVH
			Triple		
Indoor unit			FDT71VH x 3		FDT50VH x 4
Outdoor unit			FDC200VSA		FDC250VSA
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)	kW		19.0 ( 5.2 ~ 22.4 )		24.0 ( 6.9 ~ 28.0 )
Nominal heating capacity (Min~Max)	kW		22.4 ( 3.3 ~ 25.0 )		27.0 ( 5.5 ~ 31.5 )
Power consumption	Cooling/Heating	kW	6.01 / 5.76		7.43 / 6.83
EER/COP	Cooling/Heating		3.16 / 3.89		3.23 / 3.95
Inrush current		A	5		5
Max. current			20		21
Sound power level*1	Indoor <sup>3</sup>	Cooling/Heating	59 / 60		58 / 59
	Outdoor	Cooling/Heating	72 / 74		73 / 75
Sound pressure level*1	Indoor <sup>3</sup>	Cooling (P-Hi/Hi/Me/Lo)	46 / 34 / 31 / 26		44 / 34 / 30 / 27
		Heating (P-Hi/Hi/Me/Lo)	46 / 34 / 31 / 26		44 / 34 / 30 / 23
Air flow	Indoor <sup>3</sup>	Cooling/Heating	58 / 59		59 / 62
	Outdoor	Cooling/Heating	28 / 18 / 15 / 12		26 / 17 / 14 / 11
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950		
	Outdoor		1,300 x 970 x 370		1,505 x 970 x 370
Net weight	Indoor		26(Unit:21 Standard Panel:5)		
	Outdoor		115		143
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 22.22(7/8")		12.7(1/2") / 22.22(7/8")
Refrigerant line (one way) length		m	Max.70		
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50*2		
	Heating	°CWB	-15~20		
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2		

## SPECIFICATIONS -FDT-

R32			Standard Inverter			
Set model name			FDT71VNPVH	FDT90VNPVH	FDT100VNPVH	FDT125VNPVH
Indoor unit			FDT71VH	FDT100VH	FDT100VH	FDT125VH
Outdoor unit			FDC71VNP-W	FDC90VNP-W	FDC100VNP-W	FDC125VNP-W
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min-Max)			kW 7.1 ( 1.5 ~ 7.3 )	9.0 ( 2.1 ~ 9.5 )	10.0 ( 2.1 ~ 10.2 )	12.1 ( 5.0 ~ 12.1 )
Nominal heating capacity (Min-Max)			kW 7.1 ( 1.1 ~ 7.3 )	9.0 ( 1.7 ~ 9.5 )	10.0 ( 1.7 ~ 10.4 )	12.1 ( 4.0 ~ 13.3 )
Power consumption			Cooling/Heating kW 2.31 / 1.73	2.48 / 1.90	2.84 / 2.33	3.69 / 3.20
EER/COP			Cooling/Heating 3.07 / 4.10	3.63 / 4.74	3.52 / 4.29	3.28 / 3.78
Inrush current			A 5	5	5	5
Max. current			15.8	19	19	18
Sound power level*1	Indoor	Cooling/Heating	59 / 60	62 / 62	62 / 62	63 / 64
	Outdoor	Cooling/Heating	67 / 67	67 / 66	68 / 67	73 / 72
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	dB(A) 46 / 34 / 31 / 26	47 / 39 / 36 / 30	47 / 39 / 36 / 30	48 / 41 / 39 / 31
		Heating (P-Hi/Hi/Me/Lo)		47 / 39 / 36 / 29	47 / 39 / 36 / 29	48 / 41 / 38 / 31
	Outdoor	Cooling/Heating	54 / 54	55 / 53	56 / 54	57 / 57
		Cooling (P-Hi/Hi/Me/Lo)	28 / 18 / 15 / 12	37 / 26 / 23 / 17	36 / 26 / 23 / 17	38 / 28 / 25 / 18
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	28 / 18 / 15 / 12	37 / 26 / 23 / 17	36 / 26 / 23 / 17	38 / 28 / 25 / 18
		Cooling/Heating	42 / 42	59 / 55	63 / 55	75 / 79
	Outdoor	Cooling/Heating	42 / 42	59 / 55	63 / 55	75 / 79
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950		
	Outdoor			640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370
Net weight	Indoor		kg	26(Unit:21 Standard Panel:5)		
	Outdoor			45	57	73
Ref.piping size	Liquid/Gas		ømm 6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")		9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length			m	Max.30		
Vertical height differences			Outdoor is higher/lower	m Max.20 / Max.20		
Outdoor operating temperature range	Cooling		°CDB	-15~46*2		
	Heating		°CWB	-15~20		
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)			
Air filter, Q'ty			Pocket Plastic net x1(Washable)			
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2			

R410A			Standard Inverter			
Set model name			FDT71VNPVH	FDT90VNPVH	FDT100VNPVH	FDT125VNPVH
Indoor unit			FDT71VH	FDT100VH	FDT100VH	FDT125VH
Outdoor unit			FDC71VNP	FDC90VNP1	FDC100VNP	FDC125VNP
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min-Max)			kW 7.1 ( 1.4 ~ 7.1 )	9.0 ( 1.9 ~ 9.0 )	10.0 ( 2.8 ~ 11.2 )	12.1 ( 5.0 ~ 12.1 )
Nominal heating capacity (Min-Max)			kW 7.1 ( 1.0 ~ 7.1 )	9.0 ( 1.5 ~ 9.0 )	10.0 ( 2.8 ~ 11.2 )	11.2 ( 2.5 ~ 12.5 )
Power consumption			Cooling/Heating kW 2.31 / 1.73	2.67 / 2.19	2.76 / 2.84	3.69 / 3.20
EER/COP			Cooling/Heating 3.07 / 4.10	3.37 / 4.11	3.52 / 4.29	3.28 / 3.78
Inrush current			A 5	5	5	5
Max. current			14.5	18	18	21
Sound power level*1	Indoor	Cooling/Heating	59 / 60	62 / 62	62 / 62	63 / 64
	Outdoor	Cooling/Heating	67 / 67	69 / 69	69 / 69	70 / 70
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	dB(A) 46 / 34 / 31 / 26	47 / 39 / 36 / 30	47 / 39 / 36 / 30	47 / 39 / 36 / 30
		Heating (P-Hi/Hi/Me/Lo)		47 / 39 / 36 / 29	47 / 39 / 36 / 29	47 / 39 / 36 / 29
	Outdoor	Cooling/Heating	54 / 54	57 / 55	57 / 55	57 / 61
		Cooling (P-Hi/Hi/Me/Lo)	28 / 18 / 15 / 12	37 / 26 / 23 / 17	37 / 26 / 23 / 17	37 / 26 / 23 / 17
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	28 / 18 / 15 / 12	37 / 26 / 23 / 17	37 / 26 / 23 / 17	37 / 26 / 23 / 17
		Cooling/Heating	36 / 36	63 / 49.5	63 / 49.5	75 / 79
	Outdoor	Cooling/Heating	36 / 36	63 / 49.5	63 / 49.5	75 / 79
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950		
	Outdoor			640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370
Net weight	Indoor		kg	26(Unit:21 Standard Panel:5)		
	Outdoor			45	57	70
Ref.piping size	Liquid/Gas		ømm 6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")		9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length			m	Max.30		
Vertical height differences			Outdoor is higher/lower	m Max.20 / Max.20		
Outdoor operating temperature range	Cooling		°CDB	-15~46*2		
	Heating		°CWB	-15~20		
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)			
Air filter, Q'ty			Pocket Plastic net x1(Washable)			
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2			

### NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.





# FDTC

## Indoor Unit Ceiling Cassette -4way Compact



FDTC 40/50/60



Draft Prevention Panel (Option)



Energy Saving



Home Leave



Hi Power



Silent Operation



Flap Control



Favourite Setting



### Remote control (option)

#### Wired



RC-EX3D



RC-E5



RC-ES1



RCH-E3

#### Wireless



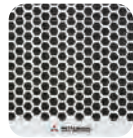
RCN-TC-5AW-E3

\*Not all functions available with all remote control options.

## European Design & Flat Panel

### Unique Grille Design

A grille designed with a unique structure and a clean white panel that blends with the room.



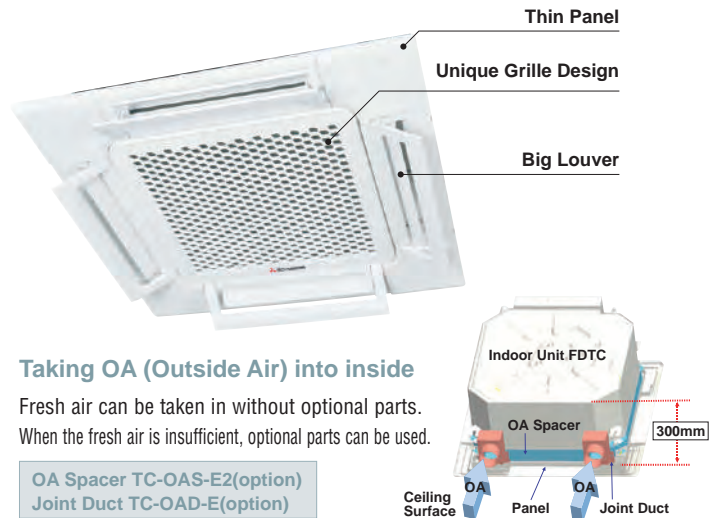
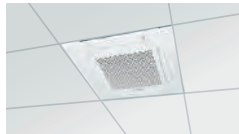
Honeycomb type



Grid type

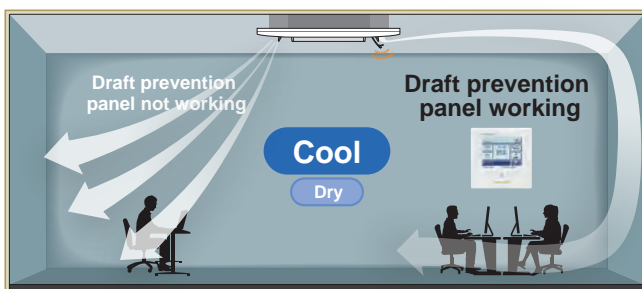
### Integrated ceiling system design (600x600)

The weight is 14kg  
Height of thin panel and main body is 248mm allowing adequate spacing for installation.



## Draft Prevention Panel (Option)

This prevents cold/hot draft being blown directly on the user. It is possible to set Draft Prevention Panel for each air outlet.



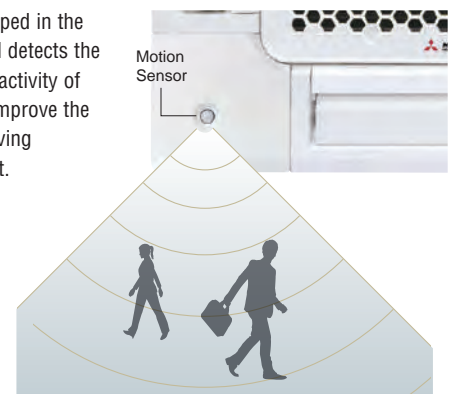
User can position panels by using the remote controller only (RC-EX3D, Wireless kit) when Draft Prevention Panel is available.

## Motion Sensor (Option)

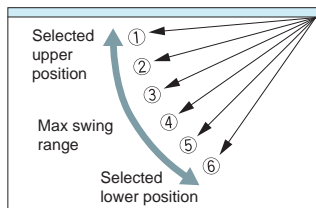
Motion sensor is equipped in the corner of the panel and detects the presence/absence and activity of humans in a room to improve the comfort and energy saving performance of the unit.



LB-TC-5W-E



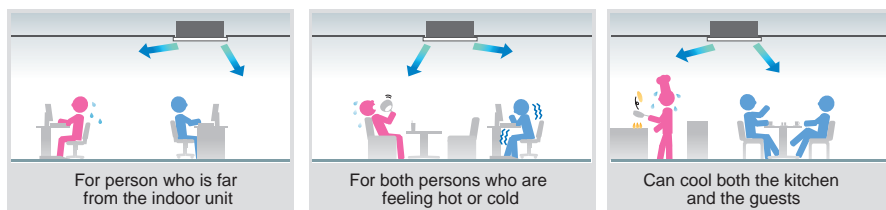
## Individual Flap Control System



According to room temperature conditions, four directions of air flow can be controlled individually by following Flap control system. Individual flap control is available even after installation.

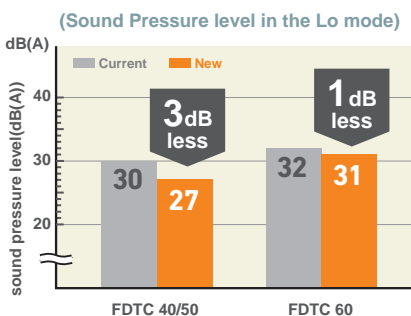
The flap can swing within the range of upper and lower flap position selected with wired remote control.

\* The wireless remote control is not applicable to the Individual flap control system.



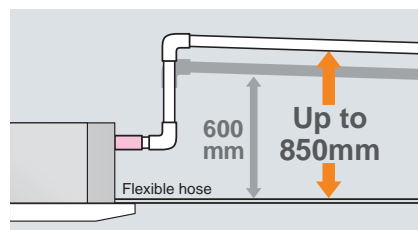
## Quieter Operation

Adopting new turbo fan and improving new heat exchanger enables noise reduction.



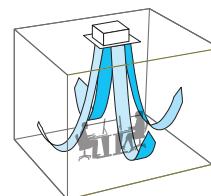
## 850mm Drain Pump

Drain can be discharged upward by 850mm from the ceiling surface close to the indoor unit. It allows a piping layout with a high degree of freedom depending on the installation location.

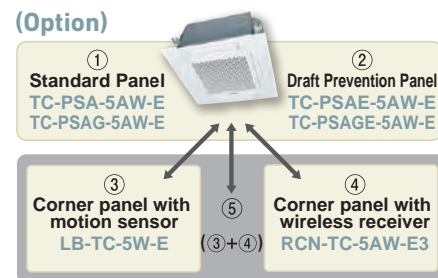


## Suitable for High ceilings

The Powerful blowout carries comfortable air flow to the floor even in high ceiling applications. It is ideal for high ceiling offices, stores, etc., with a wide, uniform air flow throughout the room.



## Panel Select Pattern (Option)



8 patterns of panel are available.

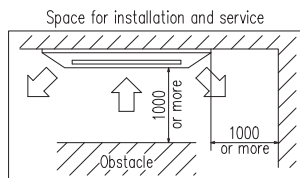
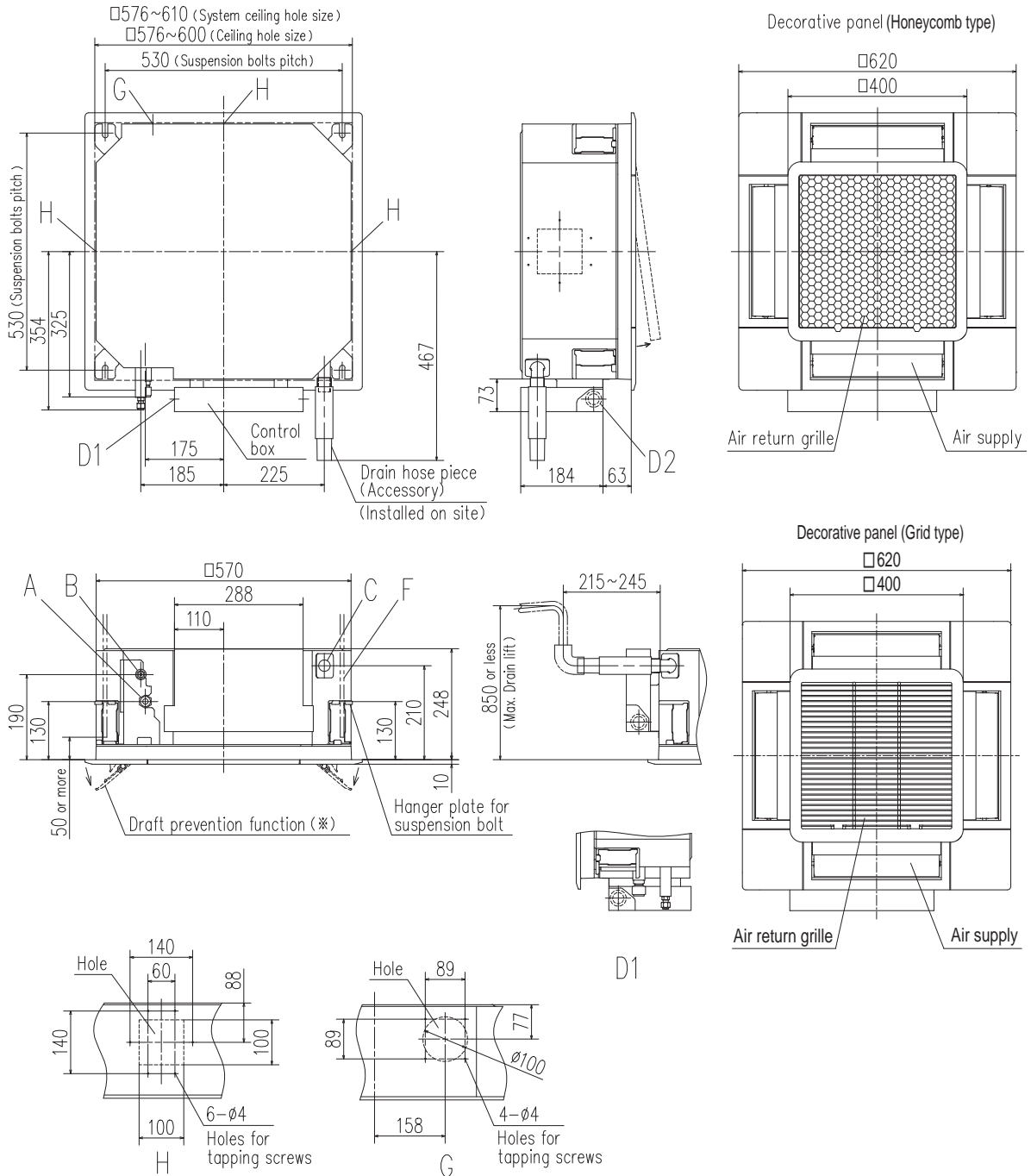
①	Standard Panel only
①+③	Standard Panel with corner panel with motion sensor
①+④	Standard Panel with corner panel with wireless receiver
①+⑤	Standard Panel with corner panel with motion sensor & corner panel with wireless receiver
②	Draft Prevention Panel only
②+③	Draft Prevention Panel with corner panel with motion sensor
②+④	Draft Prevention Panel with corner panel with wireless receiver
②+⑤	Draft Prevention Panel with corner panel with motion sensor & corner panel with wireless receiver

## OUTDOOR UNIT

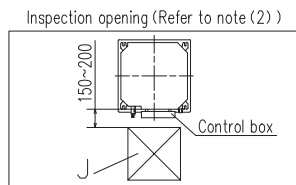
		Hyper Inverter		
SRC • FDC		40ZSX-W1,50•60ZSX-W3	71VNX-W	100~140VN(S)X-W
		40~60ZSX-S	71VNX	100~140VN(S)X
model				
Chargeless		15m	30m	
Height x Width x Depth (mm)		640 x 800(+71) x 290	750 x 880(+88) x 340	1,300 x 970 x 370

		Micro Inverter		
FDC		100~140VN(S)A-W	-	200•250VSA-W
		100~140VN(S)A	200VSA	250VSA
model				
Chargeless		30m		
Height x Width x Depth (mm)		845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370

**DIMENSIONS (Unit:mm) - FDTC -**





Make a space of 4000 or more between the units when installing more than one.





- Notes (1) The model name label is attached to the control box lid.  
 (2) This unit is designed for 2x2 grid ceiling.  
 If it is installed on a ceiling other than 2x2 grid ceiling, provide an inspection opening on the control box side.  
 (3) Draft prevention function (※) is provided on the panel TC-PSAE-5AW-E, TC-PSAGE-5AW-E only.

Symbol	Content	
A	Gas piping	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)
C	Drain piping	VP25 (O.D.32)
D1	Power supply connection	
D2	Remote control code and signal wiring connection	
F	Suspension bolts	(M10 or M8)
G	Outside air opening for ducting	(Knock out)
H	Air outlet opening for ducting	φ125 (Knock out)
J	Inspection opening	450X450

						
Set model name			FDTC40ZSXW1VH	FDTC50ZSXW3VH	FDTC60ZSXW3VH	
Indoor unit			FDTC40VH	FDTC50VH	FDTC60VH	
Outdoor unit			SRC40ZSX-W1	SRC50ZSX-W3	SRC60ZSX-W3	
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)			kW 4.0 ( 1.1 ~ 4.7 )	5.0 ( 1.1 ~ 5.6 )	5.6 ( 1.1 ~ 6.3 )	
Nominal heating capacity (Min~Max)			kW 4.5 ( 0.6 ~ 5.4 )	5.4 ( 0.6 ~ 6.3 )	6.7 ( 0.6 ~ 6.7 )	
Power consumption			Cooling/Heating kW 0.98 / 1.13	1.40 / 1.53	1.73 / 2.14	
EER/COP			Cooling/Heating 4.08 / 3.98	3.58 / 3.53	3.23 / 3.13	
Inrush current			A 5			
Max. current			15			
Sound power level*1	Indoor	Cooling/Heating	59 / 59	59 / 59	60 / 60	
	Outdoor	Cooling/Heating	63 / 62	63 / 62	65 / 65	
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	dB(A) 44 / 40 / 35 / 27		46 / 42 / 38 / 31	
		Heating (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27		46 / 42 / 38 / 31	
	Outdoor	Cooling/Heating	52 / 50		53 / 54	
		Cooling (P-Hi/Hi/Me/Lo)	m³/min 13 / 11 / 9 / 7		14 / 12 / 10 / 8	
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	13 / 11 / 9 / 7		14 / 12 / 10 / 8	
		Cooling/Heating	33 / 33		41.5 / 39	
	Outdoor	Cooling/Heating	mm Unit: 248 x 570 x 570 Panel: 10 x 620 x 620			
Exterior dimensions			640 x 800(+71) x 290			
Net weight			kg 16.5(Unit:14 Standard Panel:2.5)			
Ref.piping size			Liquid/Gas ømm 6.35(1/4") / 12.7(1/2")			
Refrigerant line (one way) length			m Max.30			
Vertical height differences			Outdoor is higher/lower m Max.20 / Max.20			
Outdoor operating temperature range			Cooling °CDB -15~46*2			
			Heating °CWB -20~20			
Panel			TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid)			
Air filter, Q'ty			Pocket plastic net x 1(Washable)			
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-TC-5AW-E3			

The values are for simultaneous Multi operation.

						
Set model name			FDTC71VNXWPVH	FDTC100VNXWPVH	FDTC125VNXWPVH	FDTC140VNXWTVH
			Twin		Triple	
Indoor unit			FDTC40VH x 2	FDTC50VH x 2	FDTC60VH x 2	FDTC50VH x 3
Outdoor unit			FDC71VNX-W	FDC100VNX-W	FDC125VNX-W	FDC140VNX-W
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)			kW 7.1 ( 3.2 ~ 8.0 )	10.0 ( 3.5 ~ 11.2 )	12.5 ( 3.5 ~ 14.0 )	14.0 ( 3.5 ~ 16.0 )
Nominal heating capacity (Min~Max)			kW 8.0 ( 3.6 ~ 9.0 )	11.2 ( 2.7 ~ 12.5 )	14.0 ( 2.7 ~ 17.0 )	16.0 ( 2.7 ~ 18.0 )
Power consumption			Cooling/Heating kW 1.73 / 1.83	2.60 / 3.04	3.67 / 4.05	3.96 / 4.34
EER/COP			Cooling/Heating 4.12 / 4.37	3.84 / 3.69	3.41 / 3.45	3.54 / 3.69
Inrush current			A 5			
Max. current			19.1			
Sound power level*1	Indoor*3	Cooling/Heating	59 / 59	59 / 59	60 / 60	59 / 59
	Outdoor	Cooling/Heating	66 / 66	67 / 67	68 / 70	69 / 71
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	dB(A) 44 / 40 / 35 / 27		46 / 42 / 38 / 31	
		Heating (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27		46 / 42 / 38 / 31	
	Outdoor	Cooling/Heating	51 / 51		53 / 54	
		Cooling (P-Hi/Hi/Me/Lo)	m³/min 13 / 11 / 9 / 7		14 / 12 / 10 / 8	
Air flow	Indoor*3	Heating (P-Hi/Hi/Me/Lo)	13 / 11 / 9 / 7		14 / 12 / 10 / 8	
		Cooling/Heating	60 / 50		100 / 100	
	Outdoor	Cooling/Heating	mm Unit: 248 x 570 x 570 Panel: 10 x 620 x 620			
Exterior dimensions			750 x 880(+88) x 340			
Net weight			kg 16.5(Unit:14 Standard Panel:2.5)			
Ref.piping size			Liquid/Gas ømm 9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length			m Max.50			
Vertical height differences			Outdoor is higher/lower m Max.30 / Max.15			
Outdoor operating temperature range			Cooling °CDB -15~50*2			
			Heating °CWB -20~20			
Panel			TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid)			
Air filter, Q'ty			Pocket plastic net x 1(Washable)			
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-TC-5AW-E3			

**NOTES:**

The data are measured under the following conditions(ISO-T1, -H1).  
 Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
 \*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  
 \*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.  
 \*3 : The values are for one indoor unit operation. (Multi system only)

## SPECIFICATIONS -FDTC-

The values are for simultaneous Multi operation.

R32			Hyper Inverter		
Set model name			FDTC100VSXWVPVH	FDTC125VSXWVPVH	FDTC140VSXWTVH
			Twin		Triple
Indoor unit			FDTC50VH x 2	FDTC60VH x 2	FDTC50VH x 3
Outdoor unit			FDC100VSX-W	FDC125VSX-W	FDC140VSX-W
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)	kW		10.0 ( 3.5 ~ 11.2 )	12.5 ( 3.5 ~ 14.0 )	14.0 ( 3.5 ~ 16.0 )
Nominal heating capacity (Min~Max)	kW		11.2 ( 2.7 ~ 16.0 )	14.0 ( 2.7 ~ 18.0 )	16.0 ( 2.7 ~ 20.0 )
Power consumption	Cooling/Heating	kW	2.60 / 3.04	3.67 / 4.05	3.96 / 4.34
EER/COP	Cooling/Heating		3.84 / 3.69	3.41 / 3.45	3.54 / 3.69
Inrush current		A	5	5	5
Max. current			14	14	14
Sound power level*1	Indoor <sup>3</sup>	Cooling/Heating	59 / 59	60 / 60	59 / 59
	Outdoor	Cooling/Heating	67 / 67	68 / 70	69 / 71
Sound pressure level*1	Indoor <sup>3</sup>	Cooling (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27
Air flow	Indoor <sup>3</sup>	Cooling/Heating	53 / 51	53 / 54	54 / 54
	Outdoor	Cooling/Heating	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 248 x 570 x 570 Panel: 10 x 620 x 620		
	Outdoor		1,300 x 970 x 370		
Net weight	Indoor		16.5(Unit:14 Standard Panel:2.5)		
	Outdoor		99		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m	Max.100		
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50*2		
	Heating	°CWB	-20~20		
Panel			TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid)		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-TC-5AW-E3		

R410A			Hyper Inverter		
Set model name			FDTC40ZSXVH	FDTC50ZSXVH	FDTC60ZSXVH
Indoor unit			FDTC40VH	FDTC50VH	FDTC60VH
Outdoor unit			SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)	kW		4.0 ( 1.1 ~ 4.7 )	5.0 ( 1.1 ~ 5.6 )	5.6 ( 1.1 ~ 6.3 )
Nominal heating capacity (Min~Max)	kW		4.5 ( 0.6 ~ 5.4 )	5.4 ( 0.6 ~ 6.3 )	6.7 ( 0.6 ~ 6.7 )
Power consumption	Cooling/Heating	kW	0.98 / 1.13	1.43 / 1.53	1.76 / 2.14
EER/COP	Cooling/Heating		4.08 / 3.98	3.50 / 3.53	3.18 / 3.13
Inrush current		A	5	5	5
Max. current			12	15	15
Sound power level*1	Indoor	Cooling/Heating	59 / 59	59 / 59	60 / 60
	Outdoor	Cooling/Heating	63 / 63	63 / 63	65 / 64
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31
Air flow	Indoor	Cooling/Heating	50 / 49	50 / 49	52 / 52
	Outdoor	Cooling/Heating	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 248 x 570 x 570 Panel: 10 x 620 x 620		
	Outdoor		640 x 800(+71) x 290		
Net weight	Indoor		16.5(Unit:14 Standard Panel:2.5)		
	Outdoor		45		
Ref.piping size	Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")		
Refrigerant line (one way) length		m	Max.30		
Vertical height differences	Outdoor is higher/lower	m	Max.20 / Max.20		
Outdoor operating temperature range	Cooling	°CDB	-15~46*2		
	Heating	°CWB	-20~20		
Panel			TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid)		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-TC-5AW-E3		

### NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : ISO-T1 ).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

R410A		Hyper Inverter			
Set model name		FDTC71VNXPVH	FDTC100VNXPVH	FDTC125VNXPVH	FDTC140VNXTVH
		Twin		Triple	
Indoor unit		FDTC40VH x 2	FDTC50VH x 2	FDTC60VH x 2	FDTC50VH x 3
Outdoor unit		FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)	kW	7.1 ( 3.2 ~ 8.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)	kW	8.0 ( 3.6 ~ 9.0 )	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 17.0 )	16.0 ( 4.0 ~ 18.0 )
Power consumption	Cooling/Heating	2.03 / 1.64	2.80 / 3.50	4.10 / 4.10	4.20 / 4.34
EER/COP	Cooling/Heating	3.50 / 4.88	3.57 / 3.20	3.05 / 3.41	3.33 / 3.69
Inrush current		5	5	5	5
Max. current		17	24	24	26
Sound power level*1	Indoor*3 Outdoor	Cooling/Heating Cooling/Heating	59 / 59 70 / 70	60 / 60 70 / 70	59 / 59 72 / 72
Sound pressure level*1	Indoor*3 Outdoor	Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo) Cooling/Heating	44 / 40 / 35 / 27 44 / 40 / 35 / 27 51 / 48	46 / 42 / 38 / 31 46 / 42 / 38 / 31 48 / 50	44 / 40 / 35 / 27 44 / 40 / 35 / 27 49 / 52
Air flow	Indoor*3 Outdoor	Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo) Cooling/Heating	13 / 11 / 9 / 7 13 / 11 / 9 / 7 60 / 50	13 / 11 / 9 / 7 13 / 11 / 9 / 7 100 / 100	14 / 12 / 10 / 8 14 / 12 / 10 / 8 100 / 100
Exterior dimensions	Indoor Outdoor	HeightxWidthxDepth	Unit: 248 x 570 x 570 Panel: 10 x 620 x 620 750 x 880(+88) x 340 1,300 x 970 x 370		
Net weight	Indoor Outdoor		16.5(Unit:14 Standard Panel:2.5) 60 105		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m	Max.50	Max.100	
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15		
Outdoor operating temperature range	Cooling Heating	°CDB °CWB	-15~43*2 -20~20		
Panel			TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid)		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-TC-5AW-E3		

The values are for simultaneous Multi operation.

R410A		Hyper Inverter		
Set model name		FDTC100VSXPVH	FDTC125VSXPVH	FDTC140VSXTVH
		Twin		Triple
Indoor unit		FDTC50VH x 2	FDTC60VH x 2	FDTC50VH x 3
Outdoor unit		FDC100VSX	FDC125VSX	FDC140VSX
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)	kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)	kW	11.2 ( 4.0 ~ 16.0 )	14.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )
Power consumption	Cooling/Heating	2.80 / 3.50	4.10 / 4.10	4.20 / 4.34
EER/COP	Cooling/Heating	3.57 / 3.20	3.05 / 3.41	3.33 / 3.69
Inrush current		5	5	5
Max. current		15	15	15
Sound power level*1	Indoor*3 Outdoor	Cooling/Heating Cooling/Heating	59 / 59 70 / 70	60 / 60 70 / 70
Sound pressure level*1	Indoor*3 Outdoor	Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo) Cooling/Heating	44 / 40 / 35 / 27 44 / 40 / 35 / 27 48 / 50	46 / 42 / 38 / 31 46 / 42 / 38 / 31 48 / 50
Air flow	Indoor*3 Outdoor	Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo) Cooling/Heating	13 / 11 / 9 / 7 13 / 11 / 9 / 7 100 / 100	14 / 12 / 10 / 8 14 / 12 / 10 / 8 100 / 100
Exterior dimensions	Indoor Outdoor	HeightxWidthxDepth	Unit: 248 x 570 x 570 Panel: 10 x 620 x 620 1,300 x 970 x 370	
Net weight	Indoor Outdoor		16.5(Unit:14 Standard Panel:2.5) 105	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length		m	Max.100	
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15	
Outdoor operating temperature range	Cooling Heating	°CDB °CWB	-15~43*2 -20~20	
Panel			TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid)	
Air filter, Q'ty			Pocket plastic net x 1(Washable)	
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-TC-5AW-E3	

# SPECIFICATIONS -FDTC-

The values are for simultaneous Multi operation.

R32		Micro Inverter		
Set model name		FDTC100VNAWPVH	FDTC125VNAWPVH	FDTC140VNAWTVH
		Twin		Triple
Indoor unit		FDTC50VH x 2	FDTC60VH x 2	FDTC50VH x 3
Outdoor unit		FDC100VNA-W	FDC125VNA-W	FDC140VNA-W
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min-Max)	kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min-Max)	kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption	Cooling/Heating kW	3.15 / 3.05	4.90 / 4.30	4.75 / 4.60
EER/COP	Cooling/Heating	3.17 / 3.67	2.55 / 3.26	2.86 / 3.37
Inrush current		5	5	5
Max. current	A	24	24	24
Sound power level*1	Indoor <sup>+3</sup>	Cooling/Heating	59 / 59	60 / 60
	Outdoor	Cooling/Heating	69 / 70	71 / 71
Sound pressure level*1	Indoor <sup>+3</sup>	Cooling (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	46 / 42 / 38 / 31
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	46 / 42 / 38 / 31
Air flow	Indoor <sup>+3</sup>	Cooling/Heating	54 / 55	54 / 56
	Outdoor	Cooling (P-Hi/Hi/Me/Lo)	13 / 11 / 9 / 7	14 / 12 / 10 / 8
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 248 x 570 x 570 Panel: 10 x 620 x 620	
	Outdoor		845 x 970 x 370	
Net weight	Indoor		16.5(Unit:14 Standard Panel:2.5)	
	Outdoor		77	
Ref.piping size	Liquid/Gas		9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length			Max.50	
Vertical height differences	Outdoor is higher/lower		Max.50 / Max.15	
Outdoor operating temperature range	Cooling	°CDB	-15~50*2	
	Heating	°CWB	-20~20	
Panel		TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid)		
Air filter, Q'ty		Pocket plastic net x 1(Washable)		
Remote control (option)		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3, wireless:RCN-TC-5AW-E3		

The values are for simultaneous Multi operation.

R32		Micro Inverter				
Set model name		FDTC100VSAWPVH	FDTC125VSAWPVH	FDTC140VSAWTVH	FDTC200VSAWDVH	FDTC250VSAWDVH
		Twin		Triple	Double Twin	
Indoor unit		FDTC50VH x 2	FDTC60VH x 2	FDTC50VH x 3	FDTC50VH x 4	FDTC60VH x 4
Outdoor unit		FDC100VSA-W	FDC125VSA-W	FDC140VSA-W	FDC200VSA-W	FDC250VSA-W
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min-Max)	kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )	20.0 ( 7.1 ~ 22.4 )	25.0 ( 7.1 ~ 28.0 )
Nominal heating capacity (Min-Max)	kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )	22.4 ( 6.6 ~ 25.0 )	28.0 ( 5.2 ~ 31.5 )
Power consumption	Cooling/Heating kW	3.15 / 3.05	4.90 / 4.30	4.75 / 4.60	6.92 / 6.37	9.43 / 8.75
EER/COP	Cooling/Heating	3.17 / 3.67	2.55 / 3.26	2.86 / 3.37	2.89 / 3.52	2.65 / 3.20
Inrush current		5	5	5	5	5
Max. current	A	15	15	15	19	20
Sound power level*1	Indoor <sup>+3</sup>	Cooling/Heating	59 / 59	60 / 60	59 / 59	60 / 60
	Outdoor	Cooling/Heating	69 / 70	71 / 71	72 / 73	72 / 74
Sound pressure level*1	Indoor <sup>+3</sup>	Cooling (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27	44 / 40 / 35 / 27
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27	44 / 40 / 35 / 27
Air flow	Indoor <sup>+3</sup>	Cooling/Heating	54 / 55	54 / 56	56 / 58	58 / 59
	Outdoor	Cooling (P-Hi/Hi/Me/Lo)	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7	13 / 11 / 9 / 7
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 248 x 570 x 570 Panel: 10 x 620 x 620			
	Outdoor		845 x 970 x 370		1,505 x 970 x 370	
Net weight	Indoor		16.5(Unit:14 Standard Panel:2.5)			
	Outdoor		78		144	145
Ref.piping size	Liquid/Gas		9.52(3/8") / 15.88(5/8")		9.52(3/8") / 22.22(7/8")	12.7(1/2") / 22.22(7/8")
Refrigerant line (one way) length			Max.50		Max.70	
Vertical height differences	Outdoor is higher/lower		Max.50 / Max.15		Max.50*4 / Max.15	
Outdoor operating temperature range	Cooling	°CDB	-15~50*2			
	Heating	°CWB	-20~20			
Panel		TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid)				
Air filter, Q'ty		Pocket plastic net x 1(Washable)				
Remote control (option)		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3, wireless:RCN-TC-5AW-E3				

## NOTES:

- The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : ISO-T1).  
 Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
 \*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  
 \*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.  
 \*3 : The values are for one indoor unit operation. (Multi system only)  
 \*4 : In case of following conditions:Max.50m(Outdoor unit is higher & Outdoor temperature ≤ 43°C), Max.30m(Outdoor unit is higher & Outdoor temperature > 43°C)



The values are for simultaneous Multi operation.

R410A			Micro Inverter		
Set model name			FDTC100VNAPVH	FDTC125VNAPVH	FDTC140VNATVH
			Twin		Triple
Indoor unit			FDTC50VH x 2	FDTC60VH x 2	FDTC50VH x 3
Outdoor unit			FDC100VNA	FDC125VNA	FDC140VNA
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)	kW		10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)	kW		11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption	Cooling/Heating	kW	3.30 / 3.15	4.90 / 4.50	4.75 / 4.60
EER/COP	Cooling/Heating		3.03 / 3.56	2.55 / 3.11	2.86 / 3.37
Inrush current		A	5	5	5
Max. current			25	25	25
Sound power level* <sup>1</sup>	Indoor <sup>3</sup>	Cooling/Heating	59 / 59	60 / 60	59 / 59
	Outdoor	Cooling/Heating	70 / 70	71 / 71	73 / 73
Sound pressure level* <sup>1</sup>	Indoor <sup>3</sup>	Cooling (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27
		Heating (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27
	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59
Air flow	Indoor <sup>3</sup>	Cooling (P-Hi/Hi/Me/Lo)	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7
		Heating (P-Hi/Hi/Me/Lo)	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 248 x 570 x 570 Panel: 10 x 620 x 620		
	Outdoor		845 x 970 x 370		
Net weight	Indoor		16.5(Unit:14 Standard Panel:2.5)		
	Outdoor		80		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m	Max.50		
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50* <sup>2</sup>		
	Heating	°CWB	-20~20		
Panel			TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid)		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3, wireless:RCN-TC-5AW-E3		

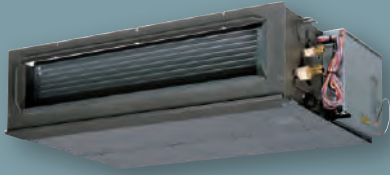
The values are for simultaneous Multi operation.

R410A			Micro Inverter				
Set model name			FDTC100VSAPVH	FDTC125VSAPVH	FDTC140VSATVH	FDTC200VSADVH	FDTC250VSADVH
			Twin		Triple	Double Twin	
Indoor unit			FDTC50VH x 2	FDTC60VH x 2	FDTC50VH x 3	FDTC50VH x 4	FDTC60VH x 4
Outdoor unit			FDC100VSA	FDC125VSA	FDC140VSA	FDC200VSA	FDC250VSA
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)	kW		10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )	19.0 ( 5.2 ~ 22.4 )	24.0 ( 6.9 ~ 28.0 )
Nominal heating capacity (Min~Max)	kW		11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )	22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )
Power consumption	Cooling/Heating	kW	3.30 / 3.15	4.90 / 4.50	4.75 / 4.60	6.95 / 6.79	10.65 / 8.20
EER/COP	Cooling/Heating		3.03 / 3.56	2.55 / 3.11	2.86 / 3.37	2.73 / 3.30	2.25 / 3.29
Inrush current		A	5	5	5	5	5
Max. current			15	15	15	20	21
Sound power level* <sup>1</sup>	Indoor <sup>3</sup>	Cooling/Heating	59 / 59	60 / 60	59 / 59	59 / 59	60 / 60
	Outdoor	Cooling/Heating	70 / 70	71 / 71	73 / 73	72 / 74	75 / 75
Sound pressure level* <sup>1</sup>	Indoor <sup>3</sup>	Cooling (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31
		Heating (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31
	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59	58 / 59	61 / 62
Air flow	Indoor <sup>3</sup>	Cooling (P-Hi/Hi/Me/Lo)	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8
		Heating (P-Hi/Hi/Me/Lo)	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73	135 / 135	143 / 151
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 248 x 570 x 570 Panel: 10 x 620 x 620				
	Outdoor		845 x 970 x 370		1,300 x 970 x 370	1,505 x 970 x 370	
Net weight	Indoor		16.5(Unit:14 Standard Panel:2.5)				
	Outdoor		82		115	143	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")			9.52(3/8") / 22.22(7/8")	12.7(1/2") / 22.22(7/8")
Refrigerant line (one way) length		m	Max.50			Max.70	
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15			Max.30 / Max.15	
Outdoor operating temperature range	Cooling	°CDB	-15~50* <sup>2</sup>				
	Heating	°CWB	-20~20		-15~20		
Panel			TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid)				
Air filter, Q'ty			Pocket plastic net x 1(Washable)				
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-TC-5AW-E3				

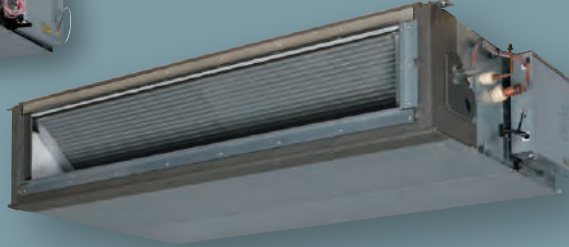
# FDU

Indoor Unit

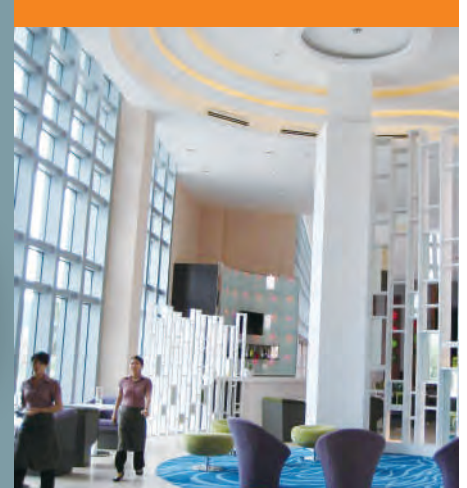
Duct Connected -High Static pressure-



FDU 71/100/125/140



FDU 200/250/280



- Energy Saving
- Automatic Operation
- Silent Operation
- Hi Power
- Weekly/Sleep/Peak-Cut Timer
- Self-Diagnostics



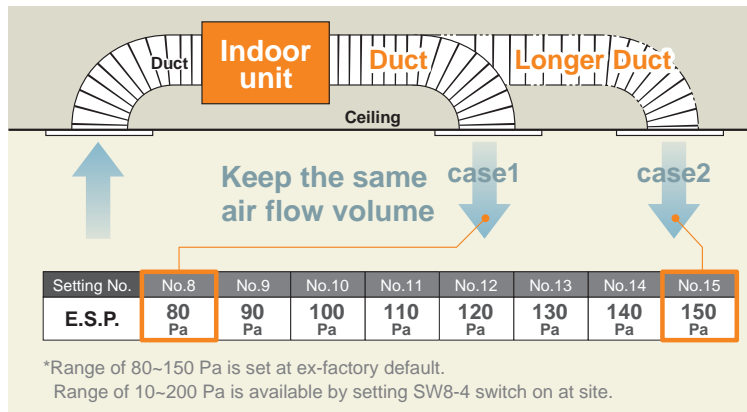
Remote control (option)

Wired				Wireless	
RC-EX3D	RC-EXZ3D	RC-E5	RC-ES1	RCH-E3	RCN-KIT4-E2

\*Not all functions available with all remote control options.

## External Static Pressure (E.S.P.) Control

The External Static Pressure (E.S.P.) can be manually set on the wired remote controller. Indoor unit will control the fan speed to keep rated air flow volume at each fan speed setting. You can set required E.S.P. by wired remote controller, calculated with the set air flow rate and the pressure loss of the duct.



Range of external static pressure

10~200Pa

### RC-E5

E.S.P. button

External Static Pressure (E.S.P.) can be set by E.S.P. button.



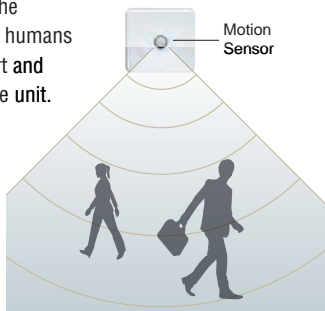
\*Range of 80~150 Pa is set at ex-factory default.  
Range of 10~200 Pa is available by setting SW8-4 switch on at site.

## Motion Sensor (Option)

Motion sensor is equipped in the ceiling plane or wall plane and detects the presence/absence and activity of humans in a room to improve the comfort and energy saving performance of the unit.

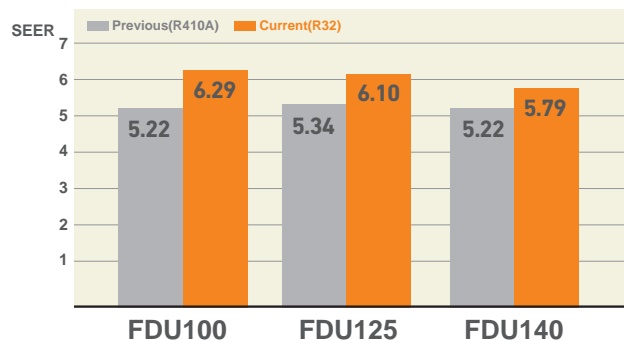


LB-KIT2



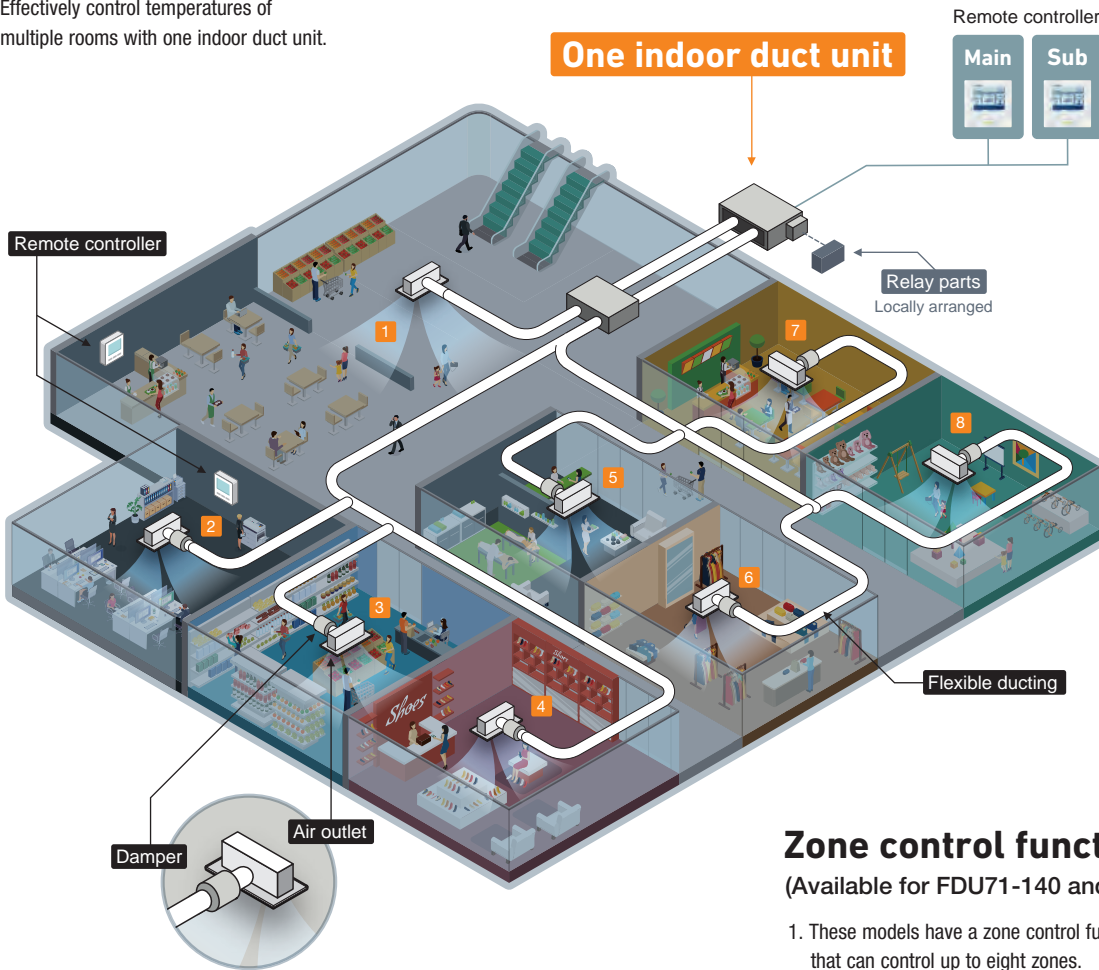
## High Efficiency

Energy efficiency is improved by use of DC fan motor & high efficient heat exchanger.



## Zoning system (Max 8 zones)

Effectively control temperatures of multiple rooms with one indoor duct unit.



Remote controller



### RC-EXZ3D

Top display



Zone menu



## Zone control function

(Available for FDU71-140 and FDUM40-60(\*3))

1. These models have a zone control function that can control up to eight zones.
2. The damper of each zone can be opened or closed with the exclusive remote control (RC-EXZ3D).
3. Timer function to open/close the damper is also available.
4. The duct system should be designed so that air flow volume of common zone(\*1) or spill zone(\*2) is 50% of total air flow volume.

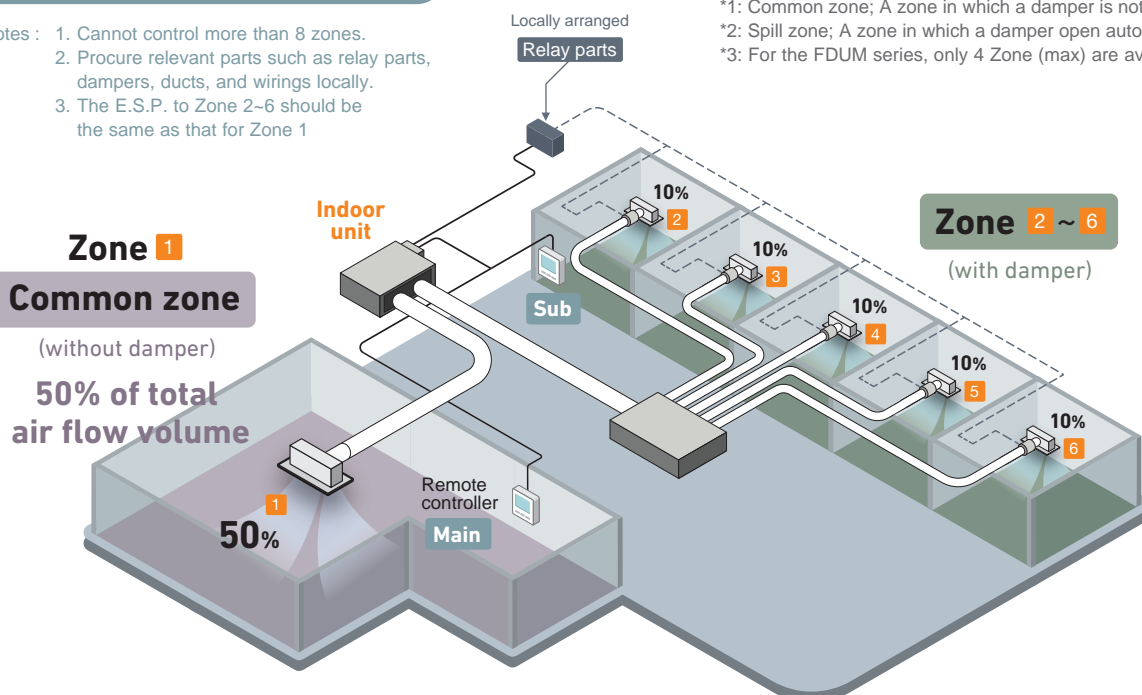
\*1: Common zone; A zone in which a damper is not installed.

\*2: Spill zone; A zone in which a damper open automatically.

\*3: For the FDUM series, only 4 Zone (max) are available.

### Example of 6 zones

- Notes :
1. Cannot control more than 8 zones.
  2. Procure relevant parts such as relay parts, dampers, ducts, and wirings locally.
  3. The E.S.P. to Zone 2~6 should be the same as that for Zone 1



Zone 1

Common zone

(without damper)

50% of total air flow volume

50%

Remote controller Main

Indoor unit

Locally arranged Relay parts

Zone 2 ~ 6

(with damper)

10%

10%

10%

10%

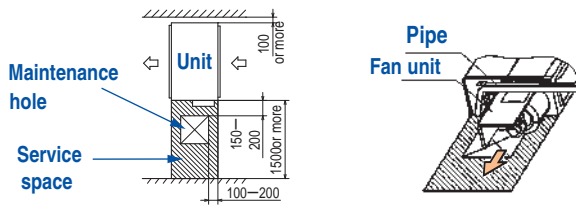
10%

10%

10%

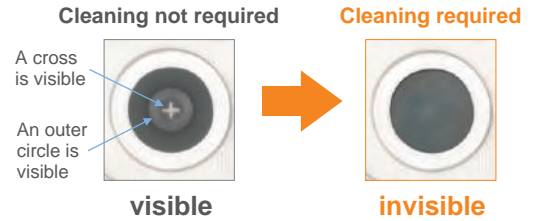
## Improvement of the Serviceability

Fan unit (impeller and motor) can be pulled out from the right side of the unit. Maintenance can be carried out from the right side or the bottom side of the unit.



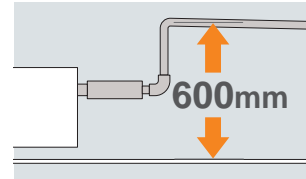
## Transparent Inspection Window

Dirt condition of the bottom of a drain pan can be checked through this transparent inspection window without removing drain pan.



## Enhanced Installation Workability

600mm Drain Pump is mounted in FDU71/100/125/140. The indoor unit is completely hidden in the ceiling, so this is suitable for spaces with classy interior decoration.



## OUTDOOR UNIT

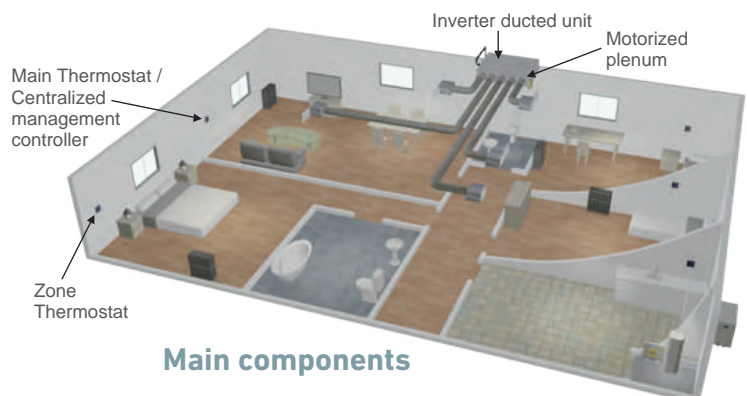
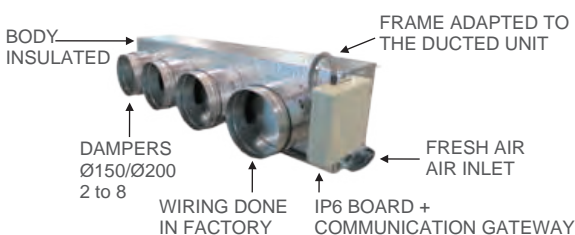
		Hyper Inverter	
FDC		71VNX-W	100~140VN(S)X-W
		71VNX	100~140VN(S)X
model			
Chargeless		30m	
Height x Width x Depth (mm)		750 x 880(+88) x 340	1,300 x 970 x 370

		Micro Inverter			Standard Inverter		
FDC		100~140VN(S)A-W	-	200*250*280VSA-W	71VNP-W	90*100VNP-W	125VNP-W
		100~140VN(S)A	200VSA	250VSA	71VNP	90VNP1	100VNP
model							
Chargeless		30m			15m		
Height x Width x Depth (mm)		845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370

## Round Duct Adapter (Available for FDU71~140 and FDUM40~140)

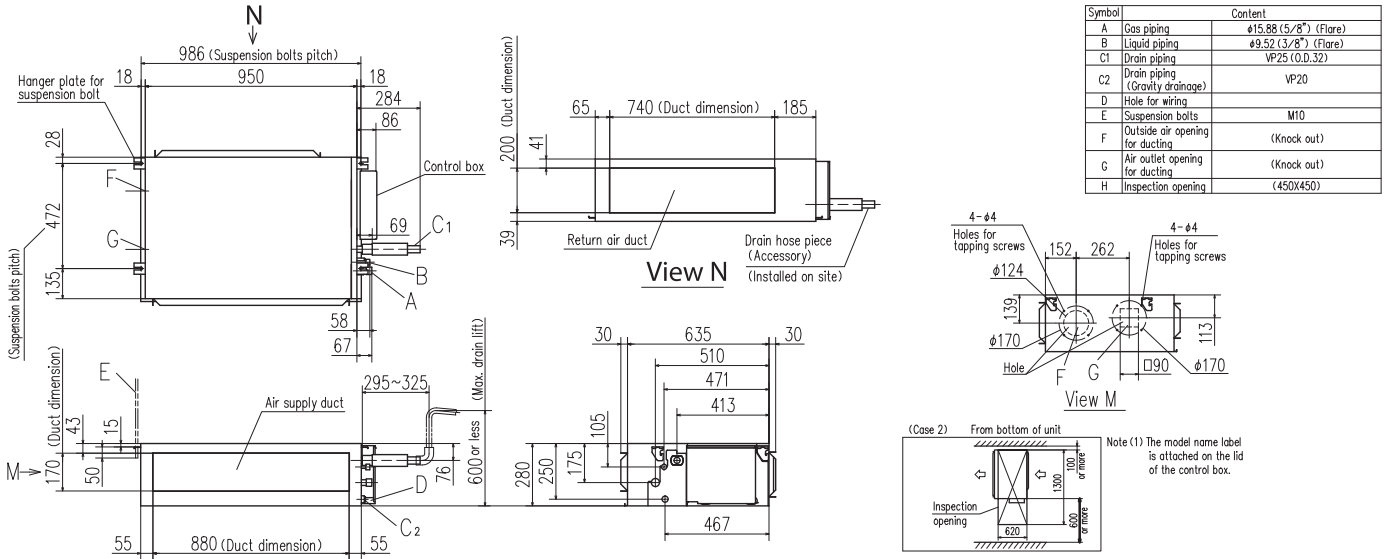
**AIRZONE** Company: AIRZONE  
URL: <http://www.airzone.es>

All-in-one solution: the whole zoning system in a plug&play device perfectly adapted to the indoor DX unit



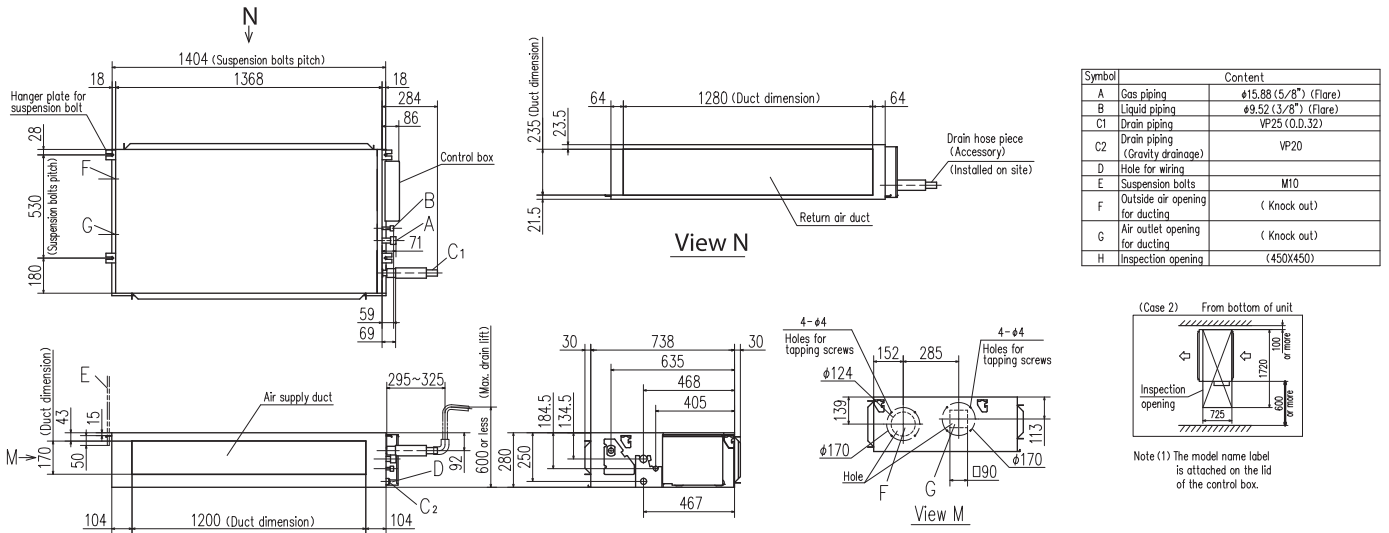
Main components

**Model FDU71VH**

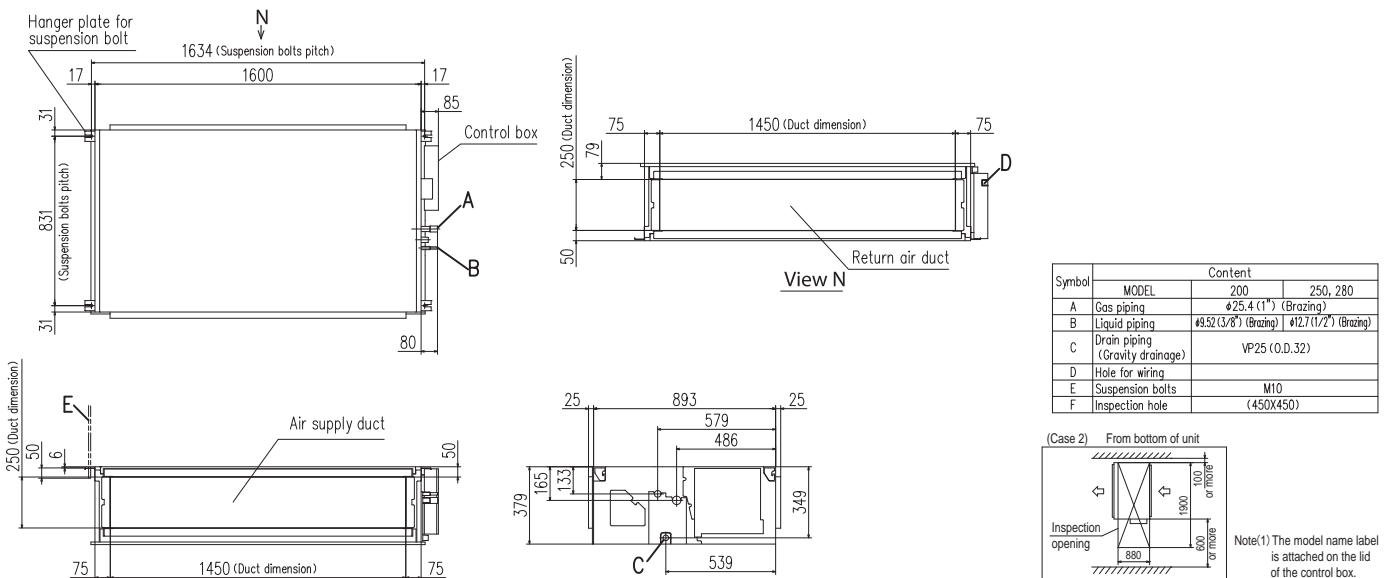


**DIMENSIONS (Unit:mm) - FDU -**

**Models FDU100VH,125VH,140VH**



**Models FDU200VH, 250VH, 280VH**



## SPECIFICATIONS -FDU-

R32			Hyper Inverter								
Set model name			FDU71VNXWVH	FDU100VNXWVH	FDU125VNXWVH	FDU140VNXWVH					
Indoor unit			FDU71VH	FDU100VH	FDU125VH	FDU140VH					
Outdoor unit			FDC71VNX-W	FDC100VNX-W	FDC125VNX-W	FDC140VNX-W					
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz								
Nominal cooling capacity (Min~Max)			kW		7.1 (3.2 ~ 8.0)	10.0 (3.5 ~ 11.2)	12.5 (3.5 ~ 14.0)	14.0 (3.5 ~ 16.0)			
Nominal heating capacity (Min~Max)			kW		8.0 (3.6 ~ 9.0)	11.2 (2.7 ~ 12.5)	14.0 (2.7 ~ 17.0)	16.0 (2.7 ~ 18.0)			
Power consumption			Cooling/Heating		kW		1.77 / 1.78	2.59 / 2.63	3.49 / 3.61	4.22 / 4.22	
EER/COP			Cooling/Heating				4.01 / 4.49	3.86 / 4.26	3.58 / 3.88	3.32 / 3.79	
Inrush current			A		5		5	5	5		
Max. current			A		20		26	28	30		
Sound power level*1			Indoor		Cooling/Heating		65 / 65		65 / 65	67 / 67	70 / 70
			Outdoor		Cooling/Heating		66 / 66		67 / 67	68 / 70	69 / 71
Sound pressure level*1			Indoor		Cooling (P-Hi/Hi/Me/Lo)		38 / 33 / 29 / 25		44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
					Heating (P-Hi/Hi/Me/Lo)		38 / 33 / 29 / 25		44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
			Outdoor		Cooling/Heating		51 / 51		53 / 51	53 / 54	54 / 54
Air flow			Indoor		Cooling (P-Hi/Hi/Me/Lo)		24 / 19 / 15 / 10		36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
					Heating (P-Hi/Hi/Me/Lo)		24 / 19 / 15 / 10		36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
			Outdoor		Cooling/Heating		60 / 50		100 / 100	100 / 100	100 / 100
External static pressure*2			Pa		Standard:35 Max:200		Standard:60 Max:200				
Exterior dimensions			Indoor		HeightxWidthxDepth		mm				
			Outdoor				280 x 950 x 635				
							750 x 880(+88) x 340				
Net weight			Indoor		kg		34				
			Outdoor				60				
Ref.piping size			Liquid/Gas		ømm		9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length			m		Max.50		Max.100				
Vertical height differences			Outdoor is higher/lower		m		Max.30 / Max.15		Max.50 / Max.15		
Outdoor operating temperature range			Cooling		°CDB		-15~50*3				
			Heating		°CWB		-20~20				
Air filter							Procure locally				
Remote control (option)							wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2				

R32			Hyper Inverter								
Set model name			FDU100VSXWVH	FDU125VSXWVH	FDU140VSXWVH						
Indoor unit			FDU100VH	FDU125VH	FDU140VH						
Outdoor unit			FDC100VSX-W	FDC125VSX-W	FDC140VSX-W						
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz								
Nominal cooling capacity (Min~Max)			kW		10.0 (3.5 ~ 11.2)	12.5 (3.5 ~ 14.0)	14.0 (3.5 ~ 16.0)				
Nominal heating capacity (Min~Max)			kW		11.2 (2.7 ~ 16.0)	14.0 (2.7 ~ 18.0)	16.0 (2.7 ~ 20.0)				
Power consumption			Cooling/Heating		kW		2.59 / 2.63	3.49 / 3.61	4.22 / 4.22		
EER/COP			Cooling/Heating				3.86 / 4.26	3.58 / 3.88	3.32 / 3.79		
Inrush current			A		5		5	5			
Max. current			A		15		16	17			
Sound power level*1			Indoor		Cooling/Heating		65 / 65		67 / 67	70 / 70	
			Outdoor		Cooling/Heating		67 / 67		68 / 70	69 / 71	
Sound pressure level*1			Indoor		Cooling (P-Hi/Hi/Me/Lo)		44 / 38 / 36 / 30		45 / 40 / 34 / 29	47 / 40 / 35 / 30	
					Heating (P-Hi/Hi/Me/Lo)		44 / 38 / 36 / 30		45 / 40 / 34 / 29	47 / 40 / 35 / 30	
			Outdoor		Cooling/Heating		53 / 51		53 / 54	54 / 54	
Air flow			Indoor		Cooling (P-Hi/Hi/Me/Lo)		36 / 28 / 25 / 19		39 / 32 / 26 / 20	48 / 35 / 28 / 22	
					Heating (P-Hi/Hi/Me/Lo)		36 / 28 / 25 / 19		39 / 32 / 26 / 20	48 / 35 / 28 / 22	
			Outdoor		Cooling/Heating		100 / 100		100 / 100	100 / 100	
External static pressure*2			Pa		Standard:60 Max:200						
Exterior dimensions			Indoor		HeightxWidthxDepth		mm				
			Outdoor				280 x 1,370 x 740				
							1,300 x 970 x 370				
Net weight			Indoor		kg		54				
			Outdoor				99				
Ref.piping size			Liquid/Gas		ømm		9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length			m		Max.100						
Vertical height differences			Outdoor is higher/lower		m		Max.50 / Max.15				
Outdoor operating temperature range			Cooling		°CDB		-15~50,*3				
			Heating		°CWB		-20~20				
Air filter							Procure locally				
Remote control (option)							wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2				

### NOTES:

The data are measured under the following conditions(R32:ISO-T1, -H1 / R410A:ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 200Pa.

\*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

R410A			Hyper Inverter			
Set model name			FDU71VNXVH	FDU100VNXVH	FDU125VNXVH	FDU140VNXVH
Indoor unit			FDU71VH	FDU100VH	FDU125VH	FDU140VH
Outdoor unit			FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)			kW		7.1 ( 3.2 ~ 8.0 )	10.0 ( 4.0 ~ 11.2 )
Nominal heating capacity (Min~Max)			kW		8.0 ( 3.6 ~ 9.0 )	11.2 ( 4.0 ~ 12.5 )
Power consumption			kW		2.05 / 2.01	2.68 / 3.02
EER/COP			Cooling/Heating		3.46 / 3.98	3.73 / 3.71
Inrush current			A		5	5
Max. current			A		17	25
Sound power level*1			dB(A)		65 / 65	65 / 65
Sound pressure level*1			dB(A)		66 / 66	70 / 70
Air flow			m³/min		24 / 19 / 15 / 10	36 / 28 / 25 / 19
External static pressure*2			Pa		Standard:35 Max:200	Standard:60 Max:200
Exterior dimensions			mm		280 x 950 x 635	280 x 1,370 x 740
Net weight			kg		34	54
Ref.piping size			ømm		9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length			m		Max.50	Max.100
Vertical height differences			m		Max.30 / Max.15	
Outdoor operating temperature range			°CDB		-15~43*3	
Air filter			Procure locally			
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2			

R410A			Hyper Inverter			
Set model name			FDU100VVSXVH	FDU125VVSXVH	FDU140VVSXVH	
Indoor unit			FDU100VH	FDU125VH	FDU140VH	
Outdoor unit			FDC100VSX	FDC125VSX	FDC140VSX	
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)			kW		10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )
Nominal heating capacity (Min~Max)			kW		11.2 ( 4.0 ~ 16.0 )	14.0 ( 4.0 ~ 18.0 )
Power consumption			kW		2.68 / 3.02	3.49 / 3.77
EER/COP			Cooling/Heating		3.73 / 3.71	3.58 / 3.71
Inrush current			A		5	5
Max. current			A		16	18
Sound power level*1			dB(A)		65 / 65	67 / 67
Sound pressure level*1			dB(A)		70 / 70	70 / 70
Air flow			m³/min		44 / 38 / 36 / 30	45 / 40 / 34 / 29
External static pressure*2			Pa		Standard:60 Max:200	
Exterior dimensions			mm		280 x 950 x 635	280 x 1,370 x 740
Net weight			kg		34	54
Ref.piping size			ømm		9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length			m		Max.100	
Vertical height differences			m		Max.30 / Max.15	
Outdoor operating temperature range			°CDB		-15~43*3	
Air filter			Procure locally			
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2			

## SPECIFICATIONS -FDU-

R32		Micro Inverter		
Set model name		FDU100VNAVWH	FDU125VNAVWH	FDU140VNAVWH
Indoor unit		FDU100VH	FDU125VH	FDU140VH
Outdoor unit		FDC100VNA-W	FDC125VNA-W	FDC140VNA-W
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)	kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)	kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption	Cooling/Heating	2.99 / 2.66	4.36 / 3.69	5.13 / 4.21
EER/COP	Cooling/Heating	3.35 / 4.21	2.87 / 3.79	2.65 / 3.68
Inrush current		5	5	5
Max. current		26	26	27
Sound power level*1	Indoor	Cooling/Heating	65 / 65	67 / 67
	Outdoor	Cooling/Heating	69 / 70	71 / 71
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20
External static pressure*2	Indoor	Cooling/Heating	54 / 55	54 / 56
	Outdoor	Cooling/Heating	75 / 73	75 / 73
Exterior dimensions	HeightxWidthxDepth	mm	Standard:60 Max:200	
Net weight	Indoor		280 x 1,370 x 740	
	Outdoor		845 x 970 x 370	
Ref.piping size	Liquid/Gas	ømm	54	
Refrigerant line (one way) length		m	77	
Vertical height differences	Outdoor is higher/lower	m	9.52(3/8") / 15.88(5/8")	
Outdoor operating temperature range	Cooling	°CDB	Max.50	
Air filter			Max.50 / Max.15	
Remote control (option)			-15~50*3	
			-20~20	
			Procure locally	
			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2	

R32		Micro Inverter		
Set model name		FDU100VSAVWH	FDU125VSAVWH	FDU140VSAVWH
Indoor unit		FDU100VH	FDU125VH	FDU140VH
Outdoor unit		FDC100VSA-W	FDC125VSA-W	FDC140VSA-W
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)	kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)	kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption	Cooling/Heating	2.99 / 2.66	4.36 / 3.69	5.13 / 4.21
EER/COP	Cooling/Heating	3.35 / 4.21	2.87 / 3.79	2.65 / 3.68
Inrush current		5	5	5
Max. current		17	17	18
Sound power level*1	Indoor	Cooling/Heating	65 / 65	67 / 67
	Outdoor	Cooling/Heating	69 / 70	71 / 71
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20
External static pressure*2	Indoor	Cooling/Heating	54 / 55	54 / 56
	Outdoor	Cooling/Heating	75 / 73	75 / 73
Exterior dimensions	HeightxWidthxDepth	mm	Standard:60 Max:200	
Net weight	Indoor		280 x 1,370 x 740	
	Outdoor		845 x 970 x 370	
Ref.piping size	Liquid/Gas	ømm	54	
Refrigerant line (one way) length		m	78	
Vertical height differences	Outdoor is higher/lower	m	9.52(3/8") / 15.88(5/8")	
Outdoor operating temperature range	Cooling	°CDB	Max.50	
Air filter			Max.50 / Max.15	
Remote control (option)			-15~50*3	
			-20~20	
			Procure locally	
			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2	

### NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / , R410A : ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 200Pa.

\*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*4 : In case of following conditions:Max.50m(Outdoor unit is higher & Outdoor temperature ≤ 43°C), Max.30m(Outdoor unit is higher & Outdoor temperature > 43°C)



R32			Micro Inverter		
Set model name			FDU200VSAWVH	FDU250VSAWVH	FDU280VSAWVH
Indoor unit			FDU200VH	FDU250VH	FDU280VH
Outdoor unit			FDC200VSA-W	FDC250VSA-W	FDC280VSA-W
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			20.0 ( 7.2 ~ 22.4 )	25.0 ( 7.2 ~ 28.0 )	27.0 ( 6.9 ~ 31.5 )
Nominal heating capacity (Min~Max)			22.4 ( 6.5 ~ 25.0 )	28.0 ( 6.7 ~ 31.5 )	30.0 ( 6.9 ~ 33.5 )
Power consumption			6.15 / 5.67	8.25 / 7.55	9.15 / 9.12
EER/COP			3.25 / 3.95	3.03 / 3.75	2.95 / 3.29
Inrush current			5	5	5
Max. current			23	25	25
Sound power level*1	Indoor	Cooling/Heating	78 / 78	78 / 78	78 / 78
	Outdoor	Cooling/Heating	72 / 74	73 / 75	75 / 77
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	52 / 50 / 47 / 45	52 / 50 / 47 / 45	52 / 50 / 47 / 45
		Heating (P-Hi/Hi/Me/Lo)	52 / 50 / 47 / 44	52 / 50 / 47 / 44	52 / 50 / 47 / 44
	Outdoor	Cooling/Heating	58 / 59	58 / 62	61 / 63
		Cooling/Heating	80 / 72 / 64 / 56	80 / 72 / 64 / 56	80 / 72 / 64 / 56
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	80 / 72 / 64 / 56	80 / 72 / 64 / 56	80 / 72 / 64 / 56
		Heating (P-Hi/Hi/Me/Lo)	80 / 72 / 64 / 56	80 / 72 / 64 / 56	80 / 72 / 64 / 56
	Outdoor	Cooling/Heating	148 / 134	148 / 153	136 / 140
External static pressure*2			Standard:72 Max:200		
Exterior dimensions	Indoor	HeightxWidthxDepth	379 x 1,600 x 893		
	Outdoor	HeightxWidthxDepth	1,505 x 970 x 370		
Net weight	Indoor		88		
	Outdoor		144	145	155
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 22.22(7/8") / 12.7(1/2") / 22.22(7/8")		
Refrigerant line (one way) length			Max.70		Max.60
Vertical height differences			Outdoor is higher/lower Max.50*4 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50*3		
	Heating	°CWB	-20~20		
Air filter			Procure locally		
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2		

R410A			Micro Inverter		
Set model name			FDU100VNAVH	FDU125VNAVH	FDU140VNAVH
Indoor unit			FDU100VH	FDU125VH	FDU140VH
Outdoor unit			FDC100VNA	FDC125VNA	FDC140VNA
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)			10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)			11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption			2.84 / 2.78	4.36 / 3.69	4.93 / 4.21
EER/COP			3.52 / 4.03	2.87 / 3.79	2.76 / 3.68
Inrush current			5	5	5
Max. current			26	26	27
Sound power level*1	Indoor	Cooling/Heating	65 / 65	67 / 67	70 / 70
	Outdoor	Cooling/Heating	70 / 70	71 / 71	73 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
		Heating (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59
		Cooling (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
		Cooling/Heating	75 / 73	75 / 73	75 / 73
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73
External static pressure*2			Standard:60 Max:200		
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 1,370 x 740		
	Outdoor	HeightxWidthxDepth	845 x 970 x 370		
Net weight	Indoor		54		
	Outdoor		80		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length			Max.50		
Vertical height differences			Outdoor is higher/lower Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50*3		
	Heating	°CWB	-20~20		
Air filter			Procure locally		
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2		

## SPECIFICATIONS -FDU-

R410A		Micro Inverter		
Set model name		FDU100VSAVH	FDU125VSAVH	FDU140VSAVH
Indoor unit		FDU100VH	FDU125VH	FDU140VH
Outdoor unit		FDC100VSA	FDC125VSA	FDC140VSA
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)	kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)	kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption	Cooling/Heating	2.84 / 2.78	4.36 / 3.69	4.93 / 4.21
EER/COP	Cooling/Heating	3.52 / 4.03	2.87 / 3.79	2.76 / 3.68
Inrush current		5	5	5
Max. current		17	17	18
Sound power level*1	Indoor	Cooling/Heating	65 / 65	67 / 67
	Outdoor	Cooling/Heating	70 / 70	71 / 71
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29
Air flow	Indoor	Cooling/Heating	54 / 56	55 / 57
	Outdoor	Cooling (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20
	Outdoor	Cooling/Heating	75 / 73	75 / 73
External static pressure*2	Pa	Standard:60 Max:200		
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 1,370 x 740	
	Outdoor	HeightxWidthxDepth	845 x 970 x 370	
Net weight	Indoor		54	
	Outdoor		82	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length		m	Max.50	
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15	
Outdoor operating temperature range	Cooling	°CDB	-15~50*3	
	Heating	°CWB	-20~20	
Air filter			Procure locally	
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2	

R410A		Micro Inverter		
Set model name		FDU200VSAVH	FDU250VSAVH	
Indoor unit		FDU200VH	FDU250VH	
Outdoor unit		FDC200VSA	FDC250VSA	
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)	kW	19.0 ( 5.2 ~ 22.4 )	24.0 ( 6.9 ~ 28.0 )	
Nominal heating capacity (Min~Max)	kW	22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )	
Power consumption	Cooling/Heating	6.15 / 6.03	7.98 / 7.20	
EER/COP	Cooling/Heating	3.09 / 3.71	3.01 / 3.75	
Inrush current		5	5	
Max. current		25	27	
Sound power level*1	Indoor	Cooling/Heating	78 / 78	
	Outdoor	Cooling/Heating	72 / 74	
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	52 / 50 / 47 / 45	
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	52 / 50 / 47 / 44	
Air flow	Indoor	Cooling/Heating	58 / 59	
	Outdoor	Cooling (P-Hi/Hi/Me/Lo)	80 / 72 / 64 / 56	
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	80 / 72 / 64 / 56	
	Outdoor	Cooling/Heating	135 / 135	
External static pressure*2	Pa	Standard:72 Max:200		
Exterior dimensions	Indoor	HeightxWidthxDepth	379 x 1,600 x 893	
	Outdoor	HeightxWidthxDepth	1,300 x 970 x 370	
Net weight	Indoor		88	
	Outdoor		143	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 22.22(7/8")	
Refrigerant line (one way) length		m	Max.70	
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15	
Outdoor operating temperature range	Cooling	°CDB	-15~50*3	
	Heating	°CWB	-15~20	
Air filter			Procure locally	
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2	

### NOTES:

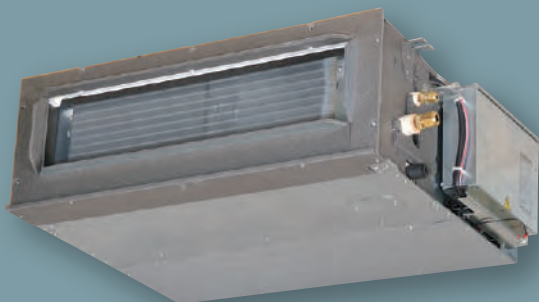
The data are measured under the following conditions(R32 : ISO-T1, -H1 / , R410A : ISO-T1).  
Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  
\*2 : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 200Pa.  
\*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

R32		Standard Inverter			
Set model name		FDU71VNPVH	FDU90VNPVH	FDU100VNPVH	FDU125VNPVH
Indoor unit		FDU71VH	FDU100VH	FDU100VH	FDU125VH
Outdoor unit		FDC71VNP-W	FDC90VNP-W	FDC100VNP-W	FDC125VNP-W
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)	kW	7.1 ( 1.5 ~ 7.3 )	9.0 ( 2.1 ~ 9.5 )	10.0 ( 2.1 ~ 10.2 )	12.1 ( 5.0 ~ 12.1 )
Nominal heating capacity (Min~Max)	kW	7.1 ( 1.1 ~ 7.3 )	9.0 ( 1.7 ~ 9.5 )	10.0 ( 1.7 ~ 10.4 )	12.1 ( 4.0 ~ 13.3 )
Power consumption	Cooling/Heating	2.60 / 1.89	2.62 / 1.98	3.08 / 2.45	3.85 / 3.28
EER/COP	Cooling/Heating	2.73. / 3.76	3.44 / 4.55	3.25 / 4.08	3.14 / 3.69
Inrush current		5	5	5	5
Max. current		15.8	19	19	20
Sound power level*1	Indoor	Cooling/Heating	65 / 65	65 / 65	65 / 65
	Outdoor	Cooling/Heating	67 / 67	67 / 66	68 / 67
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	38 / 33 / 29 / 25	44 / 38 / 36 / 30	44 / 38 / 36 / 30
		Heating (P-Hi/Hi/Me/Lo)	38 / 33 / 29 / 25	44 / 38 / 36 / 30	44 / 38 / 36 / 30
	Outdoor	Cooling/Heating	54 / 54	55 / 53	56 / 54
					57 / 57
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	24 / 19 / 15 / 10	36 / 28 / 25 / 19	36 / 28 / 25 / 19
		Heating (P-Hi/Hi/Me/Lo)	24 / 19 / 15 / 10	36 / 28 / 25 / 19	36 / 28 / 25 / 19
	Outdoor	Cooling/Heating	42 / 42	59 / 55	63 / 55
					75 / 79
External static pressure*2	Pa	Standard:35 Max:200	Standard:60 Max:200		
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 950 x 635		
	Outdoor		640 x 800(+71) x 290	280 x 1,370 x 740	
Net weight	Indoor		34	54	
	Outdoor		45	73	
Ref.piping size	Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")	
Refrigerant line (one way) length		m	Max.30		
Vertical height differences	Outdoor is higher/lower	m	Max.20 / Max.20	Max.20 / Max.20	
Outdoor operating temperature range	Cooling	°CDB	-15~46*3		
	Heating	°CWB	-15~20		
Air filter			Procure locally		
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2		

R410A		Standard Inverter			
Set model name		FDU71VNPVH	FDU90VNPVH	FDU100VNPVH	FDU125VNPVH
Indoor unit		FDU71VH	FDU100VH	FDU100VH	FDU125VH
Outdoor unit		FDC71VNP	FDC90VNP1	FDC100VNP	FDC125VNP
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)	kW	7.1 ( 1.4 ~ 7.1 )	9.0 ( 1.9 ~ 9.0 )	10.0 ( 2.8 ~ 11.2 )	12.1 ( 5.0 ~ 12.1 )
Nominal heating capacity (Min~Max)	kW	7.1 ( 1.0 ~ 7.1 )	9.0 ( 1.5 ~ 9.0 )	10.0 ( 1.5 ~ 9.0 )	11.2 ( 2.5 ~ 12.5 )
Power consumption	Cooling/Heating	2.60 / 1.89	2.69 / 2.25	3.00 / 2.93	3.85 / 3.28
EER/COP	Cooling/Heating	2.73. / 3.76	3.35 / 4.00	3.33 / 3.82	3.14 / 3.69
Inrush current		5	5	5	5
Max. current		14.5	18	18	22
Sound power level*1	Indoor	Cooling/Heating	65 / 65	65 / 65	65 / 65
	Outdoor	Cooling/Heating	67 / 67	69 / 69	70 / 70
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	38 / 33 / 29 / 25	44 / 38 / 36 / 30	44 / 38 / 36 / 30
		Heating (P-Hi/Hi/Me/Lo)	38 / 33 / 29 / 25	44 / 38 / 36 / 30	44 / 38 / 36 / 30
	Outdoor	Cooling/Heating	54 / 54	57 / 55	57 / 61
					57 / 61
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	24 / 19 / 15 / 10	36 / 28 / 25 / 19	36 / 28 / 25 / 19
		Heating (P-Hi/Hi/Me/Lo)	24 / 19 / 15 / 10	36 / 28 / 25 / 19	36 / 28 / 25 / 19
	Outdoor	Cooling/Heating	36 / 36	63 / 49.5	75 / 79
					75 / 79
External static pressure*2	Pa	Standard:35 Max:200	Standard:60 Max:200		
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 950 x 635		
	Outdoor		640 x 800(+71) x 290	280 x 1,370 x 740	
Net weight	Indoor		34	54	
	Outdoor		45	70	
Ref.piping size	Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")	
Refrigerant line (one way) length		m	Max.30		
Vertical height differences	Outdoor is higher/lower	m	Max.20 / Max.20	Max.20 / Max.20	
Outdoor operating temperature range	Cooling	°CDB	-15~46*3		
	Heating	°CWB	-15~20		
Air filter			Procure locally		
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2		

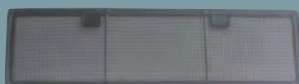
# FDUM

Indoor Unit  
**Duct Connected**  
**-Low/Middle Static pressure-**



FDUM 40/50/60/71/100/125/140

Filter kit (option)



UM-FL1EF : for 40, 50  
 UM-FL2EF : for 60, 71  
 UM-FL3EF : for 100, 125, 140  
 external static pressure loss:5Pa



- Energy Saving
- Automatic Operation
- Silent Operation
- Hi Power
- Weekly/Sleep/Peak-Cut Timer
- Self-Diagnostics



Remote control (option)

Wired				Wireless	
RC-EX3D RC-EXZ3D	RC-E5	New! RC-ES1	RCH-E3	RCN-KIT4-E2	

\*Not all functions available with all remote control options.

## Thin Design

The height of all FDUM models is only 280mm.

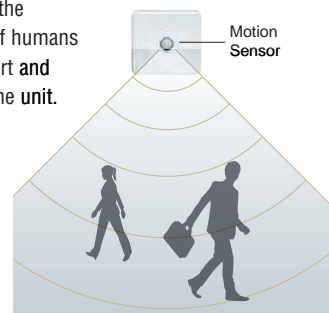
FDUM100/125/140		FDUM40/50/60/71	
70mm less		19mm less	
H 350mm	H 280mm	H 299mm	H 280mm

## Motion Sensor (Option)

Motion sensor is equipped in the ceiling plane or wall plane and detects the presence/absence and activity of humans in a room to improve the comfort and energy saving performance of the unit.



LB-KIT2

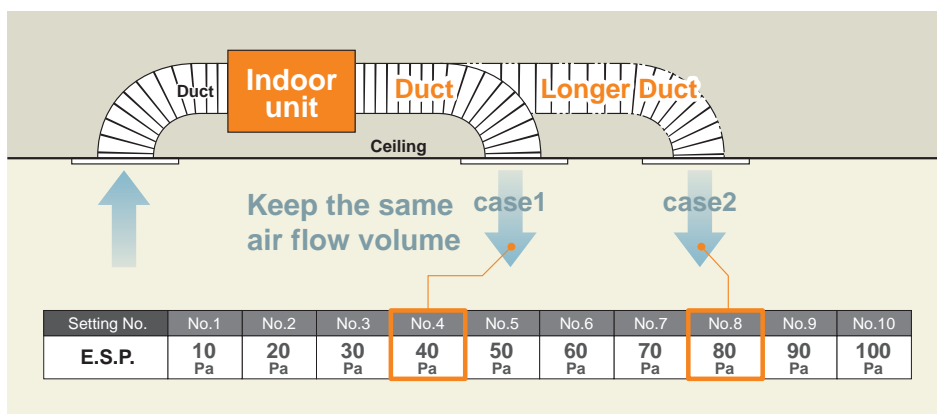


## Automatic External Static Pressure (E.S.P.) Control

Duct design was simplified.  
 Using DC motor, the most optimum air flow volume can be achieved by this automatic control.  
 Indoor unit will recognize external static pressure by itself automatically and keep rated air flow volume.

RC-E5  
 E.S.P. button

External Static Pressure (E.S.P.) can be set by E.S.P. button.



## Zoning system

Effectively control temperatures of multiple rooms with one indoor duct unit. (Please refer to P51)

## Improvement of the Serviceability

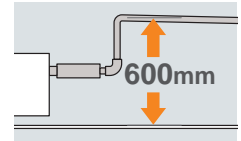
Fan unit (impeller and motor) can be pulled out from the right side of the unit. Maintenance can be carried out from the right side or the bottom side of the unit.

## Transparent Inspection Window

Dirt condition of the bottom of a drain pan can be checked through this transparent inspection window without removing drain pan. (Please refer to P52)

## Enhanced Installation Workability

600mm Drain Pump is mounted in all models. The indoor unit is completely hidden in the ceiling, so this is suitable for spaces with classy interior decoration.



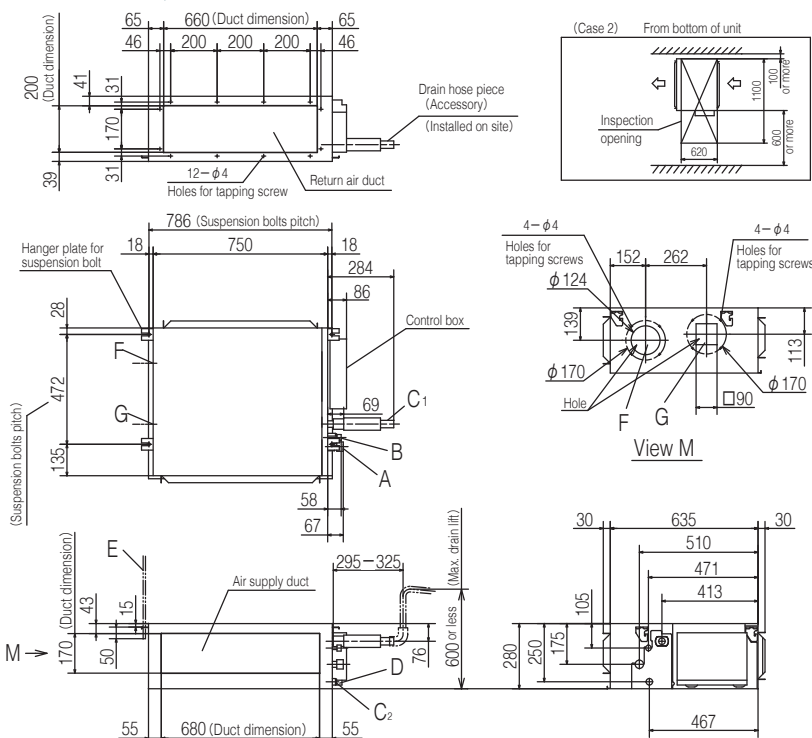
## OUTDOOR UNIT

		Hyper Inverter		
SRC • FDC		40ZSX-W1,50•60ZSX-W3	71VNX-W	100~140VN(S)X-W
			40~60ZSX-S	71VNX
model				
Chargeless		15m	30m	
Height x Width x Depth (mm)		640 x 800(+71) x 290	750 x 880(+88) x 340	1,300 x 970 x 370

		Micro Inverter			Standard Inverter		
FDC		100~140VN(S)A-W	—	200•250•280VSA-W	71VNP-W	90•100VNP-W	125VNP-W
			100~140VN(S)A	200VSA	250VSA	71VNP	90VNP1
model							
Chargeless		30m			15m		
Height x Width x Depth (mm)		845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370

## DIMENSIONS (Unit:mm) - FDUM -

### Models FDUM40VH, 50VH

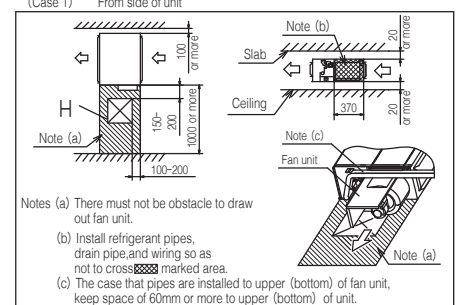


Symbol	Content
A	Gas piping $\phi 12.7(1/2')$ (Flare)
B	Liquid piping $\phi 6.35(1/4')$ (Flare)
C1	Drain piping VP25(O.D.32)
C2	Drain piping (Gravity drainage) VP20
D	Hole for wiring
E	Suspension bolts (M10)
F	Outside air opening for ducting ( $\phi 150$ ) (Knock out)
G	Air outlet opening for ducting ( $\phi 125$ ) (Knock out)
H	Inspection opening (450x450)

Note(1) The model name label is attached on the lid of the control box.

#### Space for installation and service

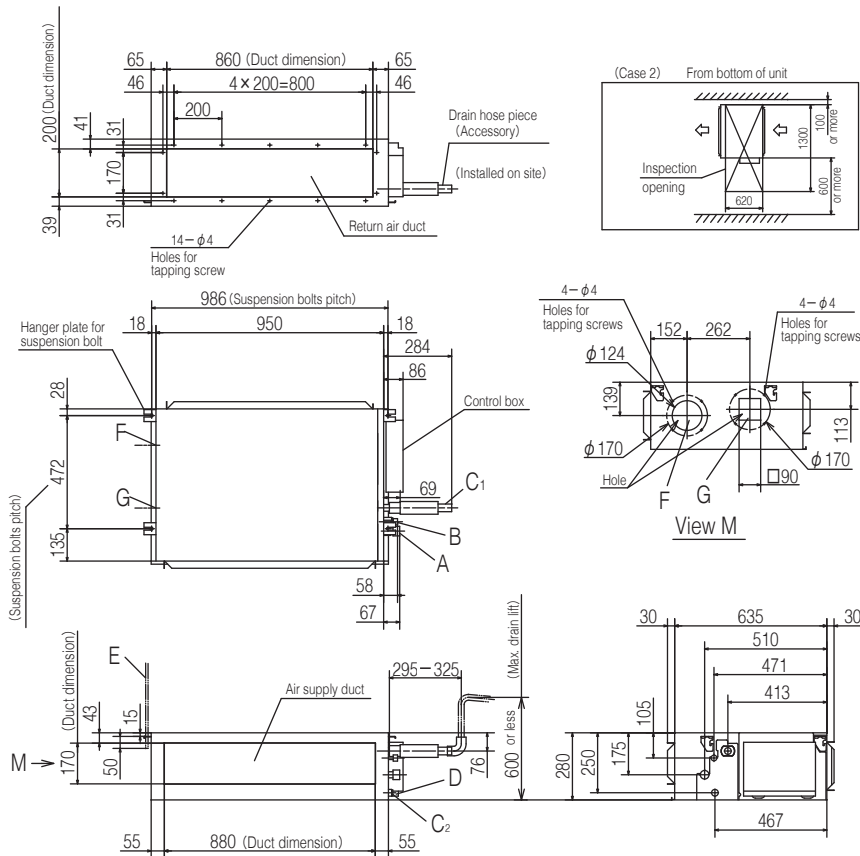
Select either of two cases to keep space for installation and services.  
(Case 1) From side of unit



Notes (a) There must not be obstacle to draw out fan unit.  
(b) Install refrigerant pipes, drain pipe, and wiring so as not to cross marked area.  
(c) The case that pipes are installed to upper (bottom) of fan unit, keep space of 60mm or more to upper (bottom) of unit.

# DIMENSIONS (Unit:mm) - FDUM -

## Models FDUM60VH,71VH



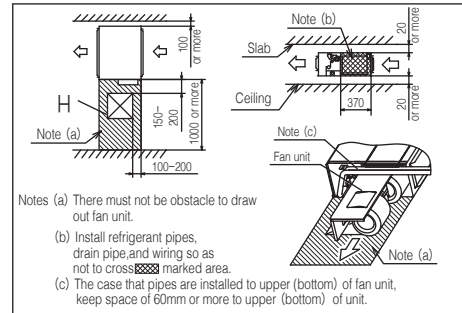
Symbol	Content	
	Model 60	71
A	Gas piping φ12.7 (1/2") (Flare)	φ15.88 (5/8") (Flare)
B	Liquid piping φ6.35 (1/4") (Flare)	φ9.52 (3/8") (Flare)
C1	Drain piping	VP25 (O.D.32)
C2	Drain piping (Gravity drainage)	VP20
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Outside air opening for ducting	(φ150) (Knock out)
G	Air outlet opening for ducting	(φ125) (Knock out)
H	Inspection opening	(450x450)

Note(1) The model name label is attached on the lid of the control box.

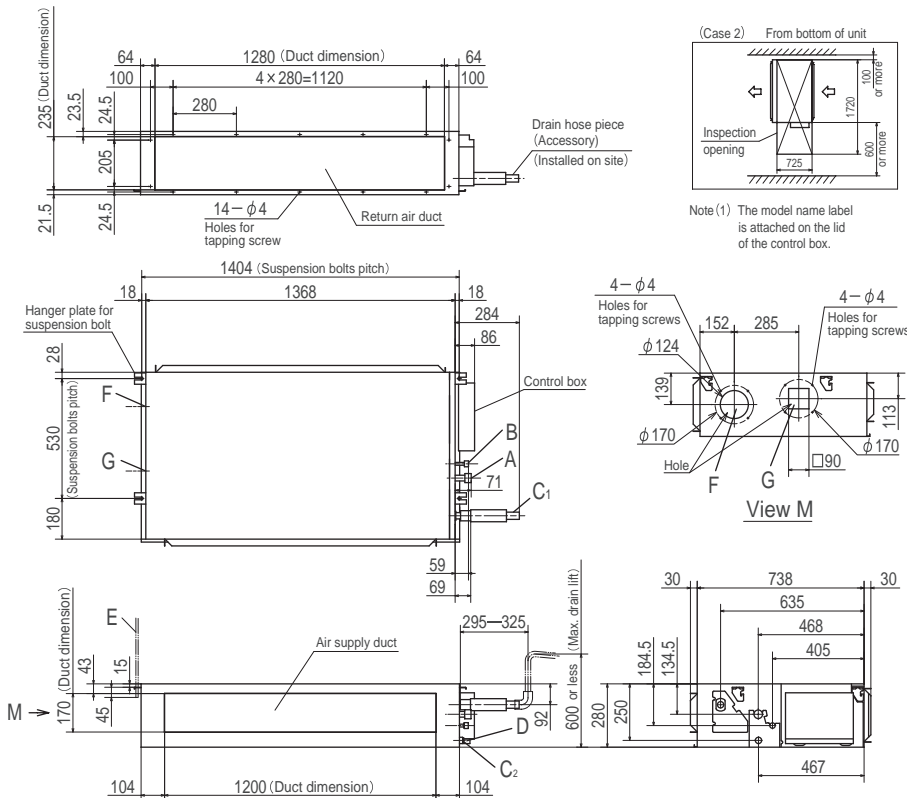
### Space for installation and service

Select either of two cases to keep space for installation and services.

(Case 1) From side of unit



## Models FDUM100VH,125VH,140VH

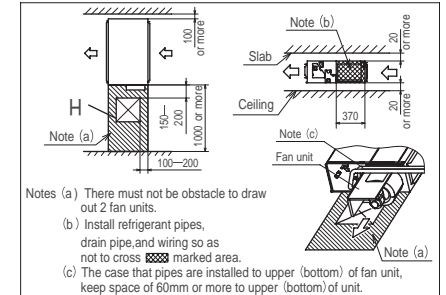




Symbol	Content	
A	Gas piping φ15.88 (5/8") (Flare)	
B	Liquid piping φ9.52 (3/8") (Flare)	
C1	Drain piping	VP25 (O.D.32)
C2	Drain piping (Gravity drainage)	VP20
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Outside air opening for ducting	(φ150) (Knock out)
G	Air outlet opening for ducting	(φ125) (Knock out)
H	Inspection opening	(450x450)



### Space for installation and service

Select either of two cases to keep space for installation and services.

(Case 1) From side of unit



					
Set model name		FDUM40ZSXW1VH	FDUM50ZSXW3VH	FDUM60ZSXW3VH	
Indoor unit		FDUM40VH	FDUM50VH	FDUM60VH	
Outdoor unit		SRC40ZSX-W1	SRC50ZSX-W3	SRC60ZSX-W3	
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)		kW 4.0 ( 1.1 ~ 4.7 )	5.0 ( 1.1 ~ 5.6 )	5.6 ( 1.1 ~ 6.3 )	
Nominal heating capacity (Min~Max)		kW 4.5 ( 0.6 ~ 5.4 )	5.4 ( 0.6 ~ 6.3 )	6.7 ( 0.6 ~ 7.1 )	
Power consumption	Cooling/Heating	kW 1.10 / 1.10	1.51 / 1.59	1.54 / 1.75	
EER/COP	Cooling/Heating	3.62 / 4.09	3.31 / 3.39	3.64 / 3.83	
Inrush current		A 5	5	5	
Max. current		15	15	15	
Sound power level*1	Indoor	Cooling/Heating	60 / 60	60 / 60	
	Outdoor	Cooling/Heating	63 / 62	65 / 65	
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	37 / 32 / 29 / 26	
		Heating (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	36 / 31 / 28 / 25	
	Outdoor	Cooling/Heating	52 / 50	53 / 54	
		Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	20 / 15 / 13 / 10	
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	20 / 15 / 13 / 10	
		Cooling/Heating	33 / 33	41.5 / 39	
External static pressure*2		Pa	Standard:35 Max:100		
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 750 x 635		280 x 950 x 635
	Outdoor		640 x 800(+71) x 290		
Net weight	Indoor		29		34
	Outdoor		45		
Ref.piping size	Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")		
Refrigerant line (one way) length		m	Max.30		
Vertical height differences		Outdoor is higher/lower	Max.20 / Max.20		
Outdoor operating temperature range	Cooling	°CDB	-15~46*3		
	Heating	°CWB	-20~20		
Air filter (option)			Filter kit : UM-FL1EF		Filter kit : UM-FL2EF
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2		

					
Set model name		FDUM71VNXWVH	FDUM100VNXWVH	FDUM125VNXWVH	FDUM140VNXWVH
Indoor unit		FDUM71VH	FDUM100VH	FDUM125VH	FDUM140VH
Outdoor unit		FDC71VNX-W	FDC100VNX-W	FDC125VNX-W	FDC140VNX-W
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)		kW 7.1 ( 3.2 ~ 8.0 )	10.0 ( 3.5 ~ 11.2 )	12.5 ( 3.5 ~ 14.0 )	14.0 ( 3.5 ~ 16.0 )
Nominal heating capacity (Min~Max)		kW 8.0 ( 3.6 ~ 9.0 )	11.2 ( 2.7 ~ 12.5 )	14.0 ( 2.7 ~ 17.0 )	16.0 ( 2.7 ~ 18.0 )
Power consumption	Cooling/Heating	kW 1.77 / 1.78	2.59 / 2.63	3.49 / 3.61	4.22 / 4.22
EER/COP	Cooling/Heating	4.01 / 4.49	3.86 / 4.26	3.58 / 3.88	3.32 / 3.79
Inrush current		A 5	5	5	5
Max. current		20	26	28	30
Sound power level*1	Indoor	Cooling/Heating	65 / 65	67 / 67	70 / 70
	Outdoor	Cooling/Heating	66 / 66	67 / 67	69 / 71
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	38 / 33 / 29 / 25	44 / 38 / 36 / 30	47 / 40 / 35 / 30
		Heating (P-Hi/Hi/Me/Lo)	38 / 33 / 29 / 25	44 / 38 / 36 / 30	47 / 40 / 35 / 30
	Outdoor	Cooling/Heating	51 / 51	53 / 51	54 / 54
		Cooling (P-Hi/Hi/Me/Lo)	24 / 19 / 15 / 10	36 / 28 / 25 / 19	39 / 32 / 26 / 20
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	24 / 19 / 15 / 10	36 / 28 / 25 / 19	48 / 35 / 28 / 22
		Cooling/Heating	60 / 50	100 / 100	100 / 100
External static pressure*2		Pa	Standard:35 Max:100	Standard:60 Max:100	
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 950 x 635		280 x 1,370 x 740
	Outdoor		750 x 880(+88) x 340		
Net weight	Indoor		34		54
	Outdoor		60		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m	Max.50		Max.100
Vertical height differences		Outdoor is higher/lower	Max.30 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50*3		
	Heating	°CWB	-20~20		
Air filter (option)			Filter kit : UM-FL2EF		Filter kit : UM-FL3EF
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2		

**NOTES:**

The data are measured under the following conditions(ISO-T1, -H1).  
 Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
 \*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  
 \*2 : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 100Pa.  
 \*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

## SPECIFICATIONS - FDUM -

R32		Hyper Inverter		
Set model name		FDUM100VSXWVH	FDUM125VSXWVH	FDUM140VSXWVH
Indoor unit		FDUM100VH	FDUM125VH	FDUM140VH
Outdoor unit		FDC100VSX-W	FDC125VSX-W	FDC140VSX-W
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min-Max)		kW 10.0 (3.5 ~ 11.2)	12.5 (3.5 ~ 14.0)	14.0 (3.5 ~ 16.0)
Nominal heating capacity (Min-Max)		kW 11.2 (2.7 ~ 16.0)	14.0 (2.7 ~ 18.0)	16.0 (2.7 ~ 20.0)
Power consumption		Cooling/Heating kW 2.59 / 2.63	3.49 / 3.61	4.22 / 4.22
EER/COP		Cooling/Heating 3.86 / 4.26	3.58 / 3.88	3.32 / 3.79
Inrush current		A 5	5	5
Max. current		15	16	17
Sound power level*1	Indoor	Cooling/Heating 65 / 65	67 / 67	70 / 70
	Outdoor	Cooling/Heating 67 / 67	68 / 70	69 / 71
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo) dB(A) 44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
	Outdoor	Heating (P-Hi/Hi/Me/Lo) 44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo) m <sup>3</sup> /min 36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
	Outdoor	Heating (P-Hi/Hi/Me/Lo) 36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
External static pressure*2		Pa	Standard:60 Max:100	
Exterior dimensions	Indoor	HeightxWidthxDepth mm	280 x 1,370 x 740	
	Outdoor		1,300 x 970 x 370	
Net weight	Indoor	kg	54	
	Outdoor		99	
Ref.piping size		Liquid/Gas ømm	9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length		m	Max.100	
Vertical height differences		Outdoor is higher/lower m	Max.50 / Max.15	
Outdoor operating temperature range	Cooling	°CDB	-15~50*3	
	Heating	°CWB	-20~20	
Air filter (option)			Filter kit : UM-FL3EF	
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2	

The values are for simultaneous Multi operation.

R32		Hyper Inverter				
Set model name		FDUM71VNXWPVH	FDUM100VNXWPVH	FDUM125VNXWPVH	FDUM140VNXWPVH	FDUM140VNXWTVH
Indoor unit		FDUM40VH x 2	FDUM50VH x 2	FDUM60VH x 2	FDUM71VH x 2	FDUM50VH x 3
Outdoor unit		FDC71VNX-W	FDC100VNX-W	FDC125VNX-W	FDC140VNX-W	FDC140VNX-W
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min-Max)		kW 7.1 (3.2 ~ 8.0)	10.0 (3.5 ~ 11.2)	12.5 (3.5 ~ 14.0)	14.0 (3.5 ~ 16.0)	14.0 (3.5 ~ 16.0)
Nominal heating capacity (Min-Max)		kW 8.0 (3.6 ~ 9.0)	11.2 (2.7 ~ 12.5)	14.0 (2.7 ~ 17.0)	16.0 (2.7 ~ 18.0)	16.0 (2.7 ~ 18.0)
Power consumption		Cooling/Heating kW 1.76 / 1.80	2.66 / 2.96	3.26 / 3.26	3.97 / 3.91	4.03 / 4.04
EER/COP		Cooling/Heating 4.03 / 4.44	3.76 / 3.79	3.83 / 4.30	3.53 / 4.10	3.48 / 3.96
Inrush current		A 5	5	5	5	5
Max. current		20	26	28	30	30
Sound power level*1	Indoor*4	Cooling/Heating 60 / 60	60 / 60	60 / 60	65 / 65	60 / 60
	Outdoor	Cooling/Heating 66 / 66	67 / 67	68 / 70	69 / 71	69 / 71
Sound pressure level*1	Indoor*4	Cooling (P-Hi/Hi/Me/Lo) dB(A) 37 / 32 / 29 / 26	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	37 / 32 / 29 / 26
	Outdoor	Heating (P-Hi/Hi/Me/Lo) 37 / 32 / 29 / 26	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	37 / 32 / 29 / 26
Air flow	Indoor*4	Cooling (P-Hi/Hi/Me/Lo) m <sup>3</sup> /min 13 / 10 / 9 / 8	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	13 / 10 / 9 / 8
	Outdoor	Heating (P-Hi/Hi/Me/Lo) 13 / 10 / 9 / 8	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	13 / 10 / 9 / 8
External static pressure*2		Pa	Standard:35 Max:100			
Exterior dimensions	Indoor	HeightxWidthxDepth mm	280 x 750 x 635		280 x 950 x 635	280 x 750 x 635
	Outdoor		750 x 880(+88) x 340		1,300 x 970 x 370	
Net weight	Indoor	kg	29		34	29
	Outdoor		60		97	
Ref.piping size		Liquid/Gas ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length		m	Max.50		Max.100	
Vertical height differences		Outdoor is higher/lower m	Max.30 / Max.15		Max.50 / Max.15	
Outdoor operating temperature range	Cooling	°CDB	-15~50*3			
	Heating	°CWB	-20~20			
Air filter (option)			Filter kit : UM-FL1EF		Filter kit : UM-FL2EF	Filter kit : UM-FL1EF
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2			

### NOTES:

<p>The data are measured under the following conditions(ISO-T1, -H1 / R410A : ISO-T1).  Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  *1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  *2 : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 100Pa.  *3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.  *4 : The values are for one indoor unit operation. (Multi system only)</p>
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The values are for simultaneous Multi operation.

R32		Hyper Inverter			
Set model name		FDUM100VSXWPVH	FDUM125VSXWPVH	FDUM140VSXWPVH	FDUM140VSXWTVH
		Twin		Triple	
Indoor unit		FDUM50VH x 2	FDUM60VH x 2	FDUM71VH x 2	FDUM50VH x 3
Outdoor unit		FDC100VSX-W	FDC125VSX-W	FDC140VSX-W	FDC140VSX-W
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)	kW	10.0 ( 3.5 ~ 11.2 )	12.5 ( 3.5 ~ 14.0 )	14.0 ( 3.5 ~ 16.0 )	14.0 ( 3.5 ~ 16.0 )
Nominal heating capacity (Min~Max)	kW	11.2 ( 2.7 ~ 16.0 )	14.0 ( 2.7 ~ 18.0 )	16.0 ( 2.7 ~ 20.0 )	16.0 ( 2.7 ~ 20.0 )
Power consumption	Cooling/Heating	2.66 / 2.96	3.26 / 3.26	3.97 / 3.91	4.03 / 4.04
EER/COP	Cooling/Heating	3.76 / 3.79	3.83 / 4.30	3.53 / 4.10	3.48 / 3.96
Inrush current		5	5	5	5
Max. current		15	16	17	17
Sound power level*1	Indoor <sup>4</sup>	Cooling/Heating	60 / 60	65 / 65	60 / 60
	Outdoor	Cooling/Heating	67 / 67	68 / 70	69 / 71
Sound pressure level*1	Indoor <sup>4</sup>	Cooling (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	38 / 33 / 29 / 25	37 / 32 / 29 / 26
		Heating (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	36 / 31 / 28 / 25	37 / 32 / 29 / 26
	Outdoor	Cooling/Heating	53 / 51	53 / 54	54 / 54
Air flow	Indoor <sup>4</sup>	Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10
		Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10
	Outdoor	Cooling/Heating	100 / 100	100 / 100	100 / 100
External static pressure*2		Standard:35 Max:100			
Exterior dimensions	Indoor	280 x 750 x 635	280 x 950 x 635		280 x 750 x 635
	Outdoor		1,300 x 970 x 370		
Net weight	Indoor	29	34		29
	Outdoor		99		
Ref.piping size	Liquid/Gas	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length		Max.100			
Vertical height differences	Outdoor is higher/lower	Max.50 / Max.15			
Outdoor operating temperature range	Cooling	-15~50*3			
	Heating	-20~20			
Air filter (option)		Filter kit : UM-FL1EF	Filter kit : UM-FL2EF		Filter kit : UM-FL1EF
Remote control (option)		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2			

R410A		Hyper Inverter		
Set model name		FDUM40ZSXVH	FDUM50ZSXVH	FDUM60ZSXVH
Indoor unit		FDUM40VH	FDUM50VH	FDUM60VH
Outdoor unit		SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)	kW	4.0 ( 1.1 ~ 4.7 )	5.0 ( 1.1 ~ 5.6 )	5.6 ( 1.1 ~ 6.3 )
Nominal heating capacity (Min~Max)	kW	4.5 ( 0.6 ~ 5.4 )	5.4 ( 0.6 ~ 6.3 )	6.7 ( 0.6 ~ 7.1 )
Power consumption	Cooling/Heating	0.952 / 1.07	1.38 / 1.45	1.54 / 1.75
EER/COP	Cooling/Heating	4.20 / 4.21	3.62 / 3.72	3.64 / 3.83
Inrush current		5	5	5
Max. current		12	15	15
Sound power level*1	Indoor	Cooling/Heating	60 / 60	60 / 60
	Outdoor	Cooling/Heating	63 / 63	63 / 63
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	37 / 32 / 29 / 26
		Heating (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	37 / 32 / 29 / 26
	Outdoor	Cooling/Heating	50 / 49	50 / 49
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	13 / 10 / 9 / 8
		Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	13 / 10 / 9 / 8
	Outdoor	Cooling/Heating	36 / 33	40 / 33
External static pressure*2		Standard:35 Max:100		
Exterior dimensions	Indoor	280 x 750 x 635		280 x 950 x 635
	Outdoor	640 x 800(+71) x 290		
Net weight	Indoor	29		34
	Outdoor	45		
Ref.piping size	Liquid/Gas	6.35(1/4") / 12.7(1/2")		
Refrigerant line (one way) length		Max.30		
Vertical height differences	Outdoor is higher/lower	Max.20 / Max.20		
Outdoor operating temperature range	Cooling	-15~46*3		
	Heating	-20~20		
Air filter (option)		Filter kit : UM-FL1EF		Filter kit : UM-FL2EF
Remote control (option)		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2		

## SPECIFICATIONS - FDUM -

R410A		Hyper Inverter			
Set model name		FDUM71VNXVH	FDUM100VNXVH	FDUM125VNXVH	FDUM140VNXVH
Indoor unit		FDUM71VH	FDUM100VH	FDUM125VH	FDUM140VH
Outdoor unit		FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min-Max)		kW 7.1 (3.2 ~ 8.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min-Max)		kW 8.0 (3.6 ~ 9.0)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 17.0)	16.0 (4.0 ~ 18.0)
Power consumption	Cooling/Heating	kW 2.03 / 1.99	2.68 / 3.02	3.49 / 3.77	4.28 / 4.42
EER/COP	Cooling/Heating	3.50 / 4.02	3.73 / 3.71	3.58 / 3.71	3.27 / 3.62
Inrush current		A 5	5	5	5
Max. current		17	24	26	26
Sound power level*1	Indoor	Cooling/Heating	65 / 65	65 / 65	67 / 67
	Outdoor	Cooling/Heating	66 / 66	70 / 70	70 / 70
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	dB(A) 38 / 33 / 29 / 25	44 / 38 / 36 / 30	45 / 40 / 34 / 29
		Heating (P-Hi/Hi/Me/Lo)	38 / 33 / 29 / 25	44 / 38 / 36 / 30	45 / 40 / 34 / 29
	Outdoor	Cooling/Heating	51 / 48	48 / 50	48 / 50
		Cooling (P-Hi/Hi/Me/Lo)	m <sup>3</sup> /min 24 / 19 / 15 / 10	36 / 28 / 25 / 19	39 / 32 / 26 / 20
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	24 / 19 / 15 / 10	36 / 28 / 25 / 19	39 / 32 / 26 / 20
		Cooling/Heating	60 / 50	100 / 100	100 / 100
External static pressure*2		Pa Standard:35 Max:100	Standard:60 Max:100		
Exterior dimensions	Indoor	HeightxWidthxDepth	mm 280 x 950 x 635		
	Outdoor		750 x 880(+88) x 340		
Net weight	Indoor		kg 34		
	Outdoor		60		
Ref.piping size	Liquid/Gas	ømm 9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length		m Max.50	Max.100		
Vertical height differences		Outdoor is higher/lower	m Max.30 / Max.15		
Outdoor operating temperature range	Cooling	°CDB -15~43*3			
	Heating	°CWB -20~20			
Air filter (option)		Filter kit : UM-FL2EF		Filter kit : UM-FL3EF	
Remote control (option)		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2			

R410A		Hyper Inverter		
Set model name		FDUM100VSXVH	FDUM125VSXVH	FDUM140VSXVH
Indoor unit		FDUM100VH	FDUM125VH	FDUM140VH
Outdoor unit		FDC100VSX	FDC125VSX	FDC140VSX
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min-Max)		kW 10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min-Max)		kW 11.2 (4.0 ~ 16.0)	14.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)
Power consumption	Cooling/Heating	kW 2.68 / 3.02	3.49 / 3.77	4.28 / 4.42
EER/COP	Cooling/Heating	3.73 / 3.71	3.58 / 3.71	3.27 / 3.62
Inrush current		A 5	5	5
Max. current		15	15	15
Sound power level*1	Indoor	Cooling/Heating	65 / 65	67 / 67
	Outdoor	Cooling/Heating	70 / 70	70 / 70
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	dB(A) 44 / 38 / 36 / 30	45 / 40 / 34 / 29
		Heating (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29
	Outdoor	Cooling/Heating	48 / 50	48 / 50
		Cooling (P-Hi/Hi/Me/Lo)	m <sup>3</sup> /min 36 / 28 / 25 / 19	39 / 32 / 26 / 20
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20
		Cooling/Heating	100 / 100	100 / 100
External static pressure*2		Pa Standard:60 Max:100	Standard:60 Max:100	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm 280 x 1,370 x 740	
	Outdoor		1,300 x 970 x 370	
Net weight	Indoor		kg 54	
	Outdoor		105	
Ref.piping size	Liquid/Gas	ømm 9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m Max.100	Max.100	
Vertical height differences		Outdoor is higher/lower	m Max.30 / Max.15	
Outdoor operating temperature range	Cooling	°CDB -15~43*3		
	Heating	°CWB -20~20		
Air filter (option)		Filter kit : UM-FL3EF		
Remote control (option)		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2		

### NOTES:

- The data are measured under the following conditions(ISO-T1).  
Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.
- \*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
  - \*2 : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 100Pa.
  - \*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.
  - \*4 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

R410A		Hyper Inverter				
Set model name		FDUM71VNXPVH	FDUM100VNXPVH	FDUM125VNXPVH	FDUM140VNXPVH	FDUM140VNXTVH
		Twin			Triple	
Indoor unit		FDUM40VH x 2	FDUM50VH x 2	FDUM60VH x 2	FDUM71VH x 2	FDUM50VH x 3
Outdoor unit		FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	FDC140VNX
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)	kW	7.1 (3.2 ~ 8.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)	kW	8.0 (3.6 ~ 9.0)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 17.0)	16.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 18.0)
Power consumption	Cooling/Heating kW	2.01 / 1.91	2.66 / 3.02	3.26 / 3.66	4.36 / 4.35	4.21 / 4.69
EER/COP	Cooling/Heating	3.53 / 4.19	3.76 / 3.71	3.83 / 3.83	3.21 / 3.68	3.33 / 3.41
Inrush current	A	5	5	5	5	5
Max. current		17	24	26	26	26
Sound power level*1	Indoor*4	Cooling/Heating	60 / 60	60 / 60	60 / 60	65 / 65
	Outdoor	Cooling/Heating	66 / 66	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor*4	Cooling (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25
Air flow	Indoor*4	Cooling/Heating	51 / 48	48 / 50	48 / 50	49 / 52
	Outdoor	Cooling/Heating	13 / 10 / 9 / 8	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10
External static pressure*2	Indoor*4	Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 750 x 635			280 x 950 x 635
	Outdoor	HeightxWidthxDepth	750 x 880(+88) x 340			1,300 x 970 x 370
Net weight	Indoor	kg	29		34	
	Outdoor	kg	60		105	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length	m	Max.50	Max.100			
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°CDB	-15~43*3			
	Heating	°CWB	-20~20			
Air filter (option)		Filter kit : UM-FL1EF		Filter kit : UM-FL2EF		
Remote control (option)		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2				

The values are for simultaneous Multi operation.

R410A		Hyper Inverter				
Set model name		FDUM100VXSPVH	FDUM125VXSPVH	FDUM140VXSPVH	FDUM140VXSXTVH	
		Twin			Triple	
Indoor unit		FDUM50VH x 2	FDUM60VH x 2	FDUM71VH x 2	FDUM50VH x 3	
Outdoor unit		FDC100VXS	FDC125VXS	FDC140VXS	FDC140VXS	
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)	kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	14.0 (5.0 ~ 16.0)	
Nominal heating capacity (Min~Max)	kW	11.2 (4.0 ~ 16.0)	14.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)	16.0 (4.0 ~ 20.0)	
Power consumption	Cooling/Heating kW	2.66 / 3.02	3.26 / 3.66	4.36 / 4.35	4.21 / 4.69	
EER/COP	Cooling/Heating	3.76 / 3.71	3.83 / 3.83	3.21 / 3.68	3.33 / 3.41	
Inrush current	A	5	5	5	5	
Max. current		15	15	15	15	
Sound power level*1	Indoor*4	Cooling/Heating	60 / 60	60 / 60	65 / 65	
	Outdoor	Cooling/Heating	70 / 70	70 / 70	72 / 72	
Sound pressure level*1	Indoor*4	Cooling (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	
Air flow	Indoor*4	Cooling/Heating	48 / 50	48 / 50	49 / 52	
	Outdoor	Cooling/Heating	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	
External static pressure*2	Indoor*4	Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 750 x 635			280 x 950 x 635
	Outdoor	HeightxWidthxDepth	1,300 x 970 x 370			
Net weight	Indoor	kg	29		34	
	Outdoor	kg	60		105	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length	m	Max.100				
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°CDB	-15~43*3			
	Heating	°CWB	-20~20			
Air filter (option)		Filter kit : UM-FL1EF		Filter kit : UM-FL2EF		
Remote control (option)		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2				

## SPECIFICATIONS - FDUM -

R32			Micro Inverter		
Set model name			FDUM100VNAWVH	FDUM125VNAWVH	FDUM140VNAWVH
Indoor unit			FDUM100VH	FDUM125VH	FDUM140VH
Outdoor unit			FDC100VNA-W	FDC125VNA-W	FDC140VNA-W
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min-Max)			10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min-Max)			11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption			2.99 / 2.66	4.36 / 3.69	5.13 / 4.21
EER/COP			3.35 / 4.21	2.87 / 3.79	2.65 / 3.68
Inrush current			5	5	5
Max. current			26	26	27
Sound power level*1	Indoor	Cooling/Heating	65 / 65	67 / 67	70 / 70
	Outdoor	Cooling/Heating	69 / 70	71 / 71	72 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
		Heating (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
	Outdoor	Cooling/Heating	54 / 55	54 / 56	56 / 58
		Cooling/Heating	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
		Heating (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73
External static pressure*2			Standard:60 Max:100		
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 1,370 x 740		
	Outdoor		845 x 970 x 370		
Net weight	Indoor		54		
	Outdoor		77		
Ref.piping size			Liquid/Gas ømm 9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length			m Max.50		
Vertical height differences			Outdoor is higher/lower Max.50 / Max.15		
Outdoor operating temperature range			Cooling	°CDB -15~50*3	
			Heating	°CWB -20~20	
Air filter (option)			Filter kit : UM-FL3EF		
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2		

R32			Micro Inverter		
Set model name			FDUM100VSAWVH	FDUM125VSAWVH	FDUM140VSAWVH
Indoor unit			FDUM100VH	FDUM125VH	FDUM140VH
Outdoor unit			FDC100VSA-W	FDC125VSA-W	FDC140VSA-W
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min-Max)			10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min-Max)			11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption			2.99 / 2.66	4.36 / 3.69	5.13 / 4.21
EER/COP			3.35 / 4.21	2.87 / 3.79	2.65 / 3.68
Inrush current			5	5	5
Max. current			17	17	18
Sound power level*1	Indoor	Cooling/Heating	65 / 65	67 / 67	70 / 70
	Outdoor	Cooling/Heating	69 / 70	71 / 71	72 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
		Heating (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
	Outdoor	Cooling/Heating	54 / 55	54 / 56	56 / 58
		Cooling/Heating	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
		Heating (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73
External static pressure*2			Standard:60 Max:100		
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 1,370 x 740		
	Outdoor		845 x 970 x 370		
Net weight	Indoor		54		
	Outdoor		78		
Ref.piping size			Liquid/Gas ømm 9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length			m Max.50		
Vertical height differences			Outdoor is higher/lower Max.50 / Max.15		
Outdoor operating temperature range			Cooling	°CDB -15~50*3	
			Heating	°CWB -20~20	
Air filter (option)			Filter kit : UM-FL3EF		
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2		

### NOTES:

- The data are measured under the following conditions(ISO-T1, -H1).  
Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.
- \*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
  - \*2 : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 100Pa.
  - \*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.
  - \*4 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

R32		Micro Inverter				
Set model name		FDUM100VNAWPVH	FDUM125VNAWPVH	FDUM140VNAWPVH	FDUM140VNAWTVH	
		Twin		Triple		
Indoor unit		FDUM50VH x 2	FDUM60VH x 2	FDUM71VH x 2	FDUM50VH x 3	
Outdoor unit		FDC100VNA-W	FDC125VNA-W	FDC140VNA-W	FDC140VNA-W	
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min-Max)	kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )	13.6 ( 5.0 ~ 14.5 )	
Nominal heating capacity (Min-Max)	kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )	15.5 ( 4.0 ~ 16.5 )	
Power consumption	Cooling/Heating kW	3.25 / 3.04	4.53 / 3.52	5.02 / 4.20	5.02 / 4.20	
EER/COP	Cooling/Heating	3.08 / 3.68	2.76 / 3.98	2.71 / 3.69	2.71 / 3.69	
Inrush current	A	5	5	5	5	
Max. current		26	26	27	27	
Sound power level*1	Indoor*4	Cooling/Heating	60 / 60	60 / 60	65 / 65	60 / 60
	Outdoor	Cooling/Heating	69 / 70	71 / 71	72 / 73	72 / 73
Sound pressure level*1	Indoor*4	Cooling (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	37 / 32 / 29 / 26
		Heating (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	37 / 32 / 29 / 26
Air flow	Outdoor	Cooling/Heating	54 / 55	54 / 56	56 / 58	56 / 58
		Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	13 / 10 / 9 / 8
Air flow	Outdoor	Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	13 / 10 / 9 / 8
		Cooling/Heating	75 / 73	75 / 73	75 / 73	75 / 73
External static pressure*2	Pa	Standard:35 Max:100				
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 750 x 635	280 x 950 x 635	280 x 750 x 635	
	Outdoor	HeightxWidthxDepth	845 x 970 x 370			
Net weight	Indoor	kg	29	34	29	
	Outdoor	kg	77			
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length		m	Max.50			
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15			
Outdoor operating temperature range	Cooling	°CDB	-15~50*3			
	Heating	°CWB	-20~20			
Air filter (option)		Filter kit : UM-FL1EF	Filter kit : UM-FL2EF		Filter kit : UM-FL1EF	
Remote control (option)		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2				

The values are for simultaneous Multi operation.

R32		Micro Inverter				
Set model name		FDUM100VSAWPVH	FDUM125VSAWPVH	FDUM140VSAWPVH	FDUM140VSAWTVH	
		Twin		Triple		
Indoor unit		FDUM50VH x 2	FDUM60VH x 2	FDUM71VH x 2	FDUM50VH x 3	
Outdoor unit		FDC100VSA-W	FDC125VSA-W	FDC140VSA-W	FDC140VSA-W	
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min-Max)	kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )	13.6 ( 5.0 ~ 14.5 )	
Nominal heating capacity (Min-Max)	kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )	15.5 ( 4.0 ~ 16.5 )	
Power consumption	Cooling/Heating kW	3.25 / 3.04	4.53 / 3.52	5.02 / 4.20	5.02 / 4.20	
EER/COP	Cooling/Heating	3.08 / 3.68	2.76 / 3.98	2.71 / 3.69	2.71 / 3.69	
Inrush current	A	5	5	5	5	
Max. current		17	17	18	18	
Sound power level*1	Indoor*4	Cooling/Heating	60 / 60	60 / 60	65 / 65	60 / 60
	Outdoor	Cooling/Heating	69 / 70	71 / 71	72 / 73	72 / 73
Sound pressure level*1	Indoor*4	Cooling (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	37 / 32 / 29 / 26
		Heating (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	37 / 32 / 29 / 26
Air flow	Outdoor	Cooling/Heating	54 / 55	54 / 56	56 / 58	56 / 58
		Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	13 / 10 / 9 / 8
Air flow	Outdoor	Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	13 / 10 / 9 / 8
		Cooling/Heating	75 / 73	75 / 73	75 / 73	75 / 73
External static pressure*2	Pa	Standard:35 Max:100				
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 750 x 635	280 x 950 x 635	280 x 750 x 635	
	Outdoor	HeightxWidthxDepth	845 x 970 x 370			
Net weight	Indoor	kg	29	34	29	
	Outdoor	kg	78			
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length		m	Max.50			
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15			
Outdoor operating temperature range	Cooling	°CDB	-15~50*3			
	Heating	°CWB	-20~20			
Air filter (option)		Filter kit : UM-FL1EF	Filter kit : UM-FL2EF		Filter kit : UM-FL1EF	
Remote control (option)		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2				

## SPECIFICATIONS - FDUM -

The values are for simultaneous Multi operation.

R32		Micro Inverter			
		FDUM200VSAWPVH	FDUM250VSAWPVH	FDUM280VSAWPVH	FDUM200VSAWTVH
Set model name		Twin		Triple	
Indoor unit		FDUM100VH x 2	FDUM125VH x 2	FDUM140VH x 2	FDUM71VH x 3
Outdoor unit		FDC200VSA-W	FDC250VSA-W	FDC280VSA-W	FDC200VSA-W
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)		kW 20.0 ( 6.8 ~ 22.4 )	25.0 ( 6.8 ~ 28.0 )	27.0 ( 7.8 ~ 31.5 )	20.0 ( 6.8 ~ 22.4 )
Nominal heating capacity (Min~Max)		kW 22.4 ( 6.7 ~ 25.0 )	28.0 ( 5.2 ~ 31.5 )	30.0 ( 6.3 ~ 33.5 )	22.4 ( 6.7 ~ 25.0 )
Power consumption		Cooling/Heating kW 6.58 / 5.59	8.74 / 7.90	10.05 / 8.47	6.58 / 5.59
EER/COP		Cooling/Heating 3.04 / 4.01	2.86 / 3.54	2.69 / 3.54	3.04 / 4.01
Inrush current		A 5	5	5	5
Max. current		A 19	25	22	19
Sound power level*1	Indoor*4	Cooling/Heating 65 / 65	67 / 67	70 / 70	65 / 65
	Outdoor	Cooling/Heating 72 / 74	73 / 75	75 / 77	72 / 74
Sound pressure level*1	Indoor*4	Cooling (P-Hi/Hi/Me/Lo) dB(A) 44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30	38 / 33 / 29 / 25
	Outdoor	Heating (P-Hi/Hi/Me/Lo) 44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30	38 / 33 / 29 / 25
Air flow	Indoor*4	Cooling/Heating m <sup>3</sup> /min 58 / 59	58 / 62	61 / 63	58 / 59
	Outdoor	Cooling (P-Hi/Hi/Me/Lo) 36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22	24 / 19 / 15 / 10
External static pressure*2		Pa 36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22	24 / 19 / 15 / 10
Exterior dimensions		mm 148 / 134	148 / 153	136 / 140	148 / 134
Net weight		kg Standard:60 Max:100	Standard:35 Max:100		
Ref.piping size		mm 280 x 1,370 x 740	1,505 x 970 x 370		
Refrigerant line (one way) length		mm 54	34		
Vertical height differences		mm 144	145		155
Outdoor operating temperature range		°CDB 9.52(3/8") / 22.22(7/8")	12.7(1/2") / 22.22(7/8")		9.52(3/8") / 22.22(7/8")
Air filter (option)		°CWB Max.70	Max.60		Max.70
Remote control (option)		°CWB Max.50*5 / Max.15	-15~-50*3		-20~-20
Air filter (option)		Filter kit : UM-FL3EF	Filter kit : UM-FL2EF		
Remote control (option)		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3	wireless:RCN-KIT4-E2		

R410A		Micro Inverter		
		FDUM100VNAVH	FDUM125VNAVH	FDUM140VNAVH
Set model name		FDUM100VH	FDUM125VH	FDUM140VH
Outdoor unit		FDC100VNA	FDC125VNA	FDC140VNA
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)		kW 10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)		kW 11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption		Cooling/Heating kW 2.84 / 2.78	4.36 / 3.69	4.93 / 4.21
EER/COP		Cooling/Heating 3.52 / 4.03	2.87 / 3.79	2.76 / 3.68
Inrush current		A 5	5	5
Max. current		A 26	26	27
Sound power level*1	Indoor	Cooling/Heating 65 / 65	67 / 67	70 / 70
	Outdoor	Cooling/Heating 70 / 70	71 / 71	73 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo) dB(A) 44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
	Outdoor	Heating (P-Hi/Hi/Me/Lo) 44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
Air flow	Indoor	Cooling/Heating m <sup>3</sup> /min 54 / 56	55 / 57	57 / 59
	Outdoor	Cooling (P-Hi/Hi/Me/Lo) 36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
External static pressure*2		Pa 36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
Exterior dimensions		mm 75 / 73	75 / 73	75 / 73
Net weight		kg Standard:60 Max:100	Standard:60 Max:100	
Ref.piping size		mm 280 x 1,370 x 740	845 x 970 x 370	
Refrigerant line (one way) length		mm 54	80	
Vertical height differences		°CDB 9.52(3/8") / 15.88(5/8")	Max.50	
Outdoor operating temperature range		°CWB Max.50 / Max.15	-15~-50*3	
Air filter (option)		Filter kit : UM-FL3EF	Filter kit : UM-FL3EF	
Remote control (option)		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3	wireless:RCN-KIT4-E2	

### NOTES:

<p>The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : ISO-T1).  Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  *1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  *2 : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 100Pa.  *3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.  *4 : The values are for one indoor unit operation. (Multi system only)  *5 : In case of following conditions:Max.50m(Outdoor unit is higher &amp; Outdoor temperature ≤ 43°C), Max.30m(Outdoor unit is higher &amp; Outdoor temperature &gt; 43°C)</p>
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R410A		Micro Inverter			
Set model name		FDUM100VSAVH	FDUM125VSAVH	FDUM140VSAVH	
Indoor unit		FDUM100VH	FDUM125VH	FDUM140VH	
Outdoor unit		FDC100VSA	FDC125VSA	FDC140VSA	
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)	kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )	
Nominal heating capacity (Min~Max)	kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )	
Power consumption	Cooling/Heating	2.84 / 2.78	4.36 / 3.69	4.93 / 4.21	
EER/COP	Cooling/Heating	3.52 / 4.03	2.87 / 3.79	2.76 / 3.68	
Inrush current		5	5	5	
Max. current		17	17	18	
Sound power level*1	Indoor	Cooling/Heating	65 / 65	67 / 67	70 / 70
	Outdoor	Cooling/Heating	70 / 70	71 / 71	73 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
		Heating (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
		Heating (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73
External static pressure*2	Pa	Standard:60 Max:100			
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 1,370 x 740		
	Outdoor		845 x 970 x 370		
Net weight	Indoor	kg	54		
	Outdoor		82		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m	Max.50		
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50*3		
	Heating	°CWB	-20~20		
Air filter (option)			Filter kit : UM-FL3EF		
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2		

The values are for simultaneous Multi operation.

R410A		Micro Inverter			
Set model name		FDUM100VNPVH	FDUM125VNPVH	FDUM140VNPVH	FDUM140VNPVH
Indoor unit		FDUM50VH x 2	FDUM60VH x 2	FDUM71VH x 2	FDUM50VH x 3
Outdoor unit		FDC100VNA	FDC125VNA	FDC140VNA	FDC140VNA
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)	kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)	kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )	15.5 ( 4.0 ~ 16.5 )
Power consumption	Cooling/Heating	3.25 / 3.21	4.53 / 3.75	5.02 / 4.20	5.02 / 4.20
EER/COP	Cooling/Heating	3.08 / 3.49	2.76 / 3.73	2.71 / 3.69	2.71 / 3.69
Inrush current		5	5	5	5
Max. current		26	26	27	27
Sound power level*1	Indoor*4	Cooling/Heating	60 / 60	60 / 60	65 / 65
	Outdoor	Cooling/Heating	70 / 70	71 / 71	73 / 73
Sound pressure level*1	Indoor*4	Cooling (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25
		Heating (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25
Air flow	Indoor*4	Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10
		Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73
External static pressure*2	Pa	Standard:35 Max:100			
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 750 x 635		
	Outdoor		280 x 950 x 635		
Net weight	Indoor	kg	29		
	Outdoor		80		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m	Max.50		
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50*3		
	Heating	°CWB	-20~20		
Air filter (option)			Filter kit : UM-FL1EF	Filter kit : UM-FL2EF	Filter kit : UM-FL1EF
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2		

# SPECIFICATIONS - FDUM -

The values are for simultaneous Multi operation.

R410A			Micro Inverter			
Set model name			FDUM100VSAPVH	FDUM125VSAPVH	FDUM140VSAPVH	FDUM140VSATVH
			Twin		Triple	
Indoor unit			FDUM50VH x 2	FDUM60VH x 2	FDUM71VH x 2	FDUM50VH x 3
Outdoor unit			FDC100VSA	FDC125VSA	FDC140VSA	FDC140VSA
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)			kW 10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)	13.6 (5.0 ~ 14.5)
Nominal heating capacity (Min~Max)			kW 11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)	15.5 (4.0 ~ 16.5)
Power consumption			Cooling/Heating kW 3.25 / 3.21	4.53 / 3.75	5.02 / 4.20	5.02 / 4.20
EER/COP			Cooling/Heating 3.08 / 3.49	2.76 / 3.73	2.71 / 3.69	2.71 / 3.69
Inrush current			A 5	5	5	5
Max. current			A 17	17	18	18
Sound power level*1	Indoor*4	Cooling/Heating	60 / 60	60 / 60	65 / 65	60 / 60
	Outdoor	Cooling/Heating	70 / 70	71 / 71	73 / 73	73 / 73
Sound pressure level*1	Indoor*4	Cooling (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	37 / 32 / 29 / 26
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	37 / 32 / 29 / 26
Air flow	Indoor*4	Cooling/Heating	m³/min 54 / 56	55 / 57	57 / 59	57 / 59
	Outdoor	Cooling/Heating	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	13 / 10 / 9 / 8
External static pressure*2			Pa	Standard:35 Max:100		
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 750 x 635		280 x 950 x 635
	Outdoor		845 x 970 x 370			
Net weight	Indoor		kg	29		29
	Outdoor		82			
Ref.piping size			Liquid/Gas	ømm 9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length			m	Max.50		
Vertical height differences			Outdoor is higher/lower	m Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°CDB			-15~50*3	
	Heating	°CWB			-20~20	
Air filter (option)			Filter kit : UM-FL1EF	Filter kit : UM-FL2EF		Filter kit : UM-FL1EF
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2			

The values are for simultaneous Multi operation.

R410A			Micro Inverter			
Set model name			FDUM200VSAPVH	FDUM250VSAPVH	FDUM200VSATVH	
			Twin		Triple	
Indoor unit			FDUM100VH x 2	FDUM125VH x 2	FDUM71VH x 3	
Outdoor unit			FDC200VSA	FDC250VSA	FDC200VSA	
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)			kW 19.0 (5.2 ~ 22.4)	24.0 (6.9 ~ 28.0)	19.0 (5.2 ~ 22.4)	
Nominal heating capacity (Min~Max)			kW 22.4 (3.3 ~ 25.0)	27.0 (5.5 ~ 31.5)	22.4 (3.3 ~ 25.0)	
Power consumption			Cooling/Heating kW 6.51 / 6.04	8.33 / 7.52	6.46 / 6.15	
EER/COP			Cooling/Heating 2.92 / 3.71	2.88 / 3.59	2.94 / 3.64	
Inrush current			A 5	5	5	
Max. current			A 22	24	22	
Sound power level*1	Indoor*4	Cooling/Heating	65 / 65	67 / 67	65 / 65	
	Outdoor	Cooling/Heating	72 / 74	73 / 75	72 / 74	
Sound pressure level*1	Indoor*4	Cooling (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	38 / 33 / 29 / 25	
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	38 / 33 / 29 / 25	
Air flow	Indoor*4	Cooling/Heating	m³/min 58 / 59	59 / 62	58 / 59	
	Outdoor	Cooling/Heating	36 / 28 / 25 / 19	39 / 32 / 26 / 20	24 / 19 / 15 / 10	
External static pressure*2			Pa	Standard:60 Max:100		Standard:35 Max:100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 1,370 x 740		280 x 950 x 635
	Outdoor		1,300 x 970 x 370	1,505 x 970 x 370		1,300 x 970 x 370
Net weight	Indoor		kg	54		34
	Outdoor		115	143		115
Ref.piping size			Liquid/Gas	ømm 9.52(3/8") / 22.22(7/8")		9.52(3/8") / 22.22(7/8")
Refrigerant line (one way) length			m	Max.70		
Vertical height differences			Outdoor is higher/lower	m Max.30 / Max.15		
Outdoor operating temperature range	Cooling	°CDB			-15~50*3	
	Heating	°CWB			-15~20	
Air filter (option)			Filter kit : UM-FL3EF		Filter kit : UM-FL2EF	
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2			

## NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : ISO-T1).  
 Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
 \*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  
 \*2 : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 100Pa.  
 \*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.  
 \*4 : The values are for one indoor unit operation. (Multi system only)



R32		Standard Inverter			
Set model name		FDUM71VNPVH	FDUM90VNPVH	FDUM100VNPVH	FDUM125VNPVH
Indoor unit		FDUM71VH	FDUM100VH	FDUM100VH	FDUM125VH
Outdoor unit		FDC71VNP-W	FDC90VNP-W	FDC100VNP-W	FDC125VNP-W
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)		kW 7.1 ( 1.5 ~ 7.3 )	9.0 ( 2.1 ~ 9.5 )	10.0 ( 2.1 ~ 10.2 )	12.1 ( 5.0 ~ 12.1 )
Nominal heating capacity (Min~Max)		kW 7.1 ( 1.1 ~ 7.3 )	9.0 ( 1.7 ~ 9.5 )	10.0 ( 1.7 ~ 10.4 )	12.1 ( 4.0 ~ 13.3 )
Power consumption		Cooling/Heating kW 2.60 / 1.89	2.62 / 1.98	3.08 / 2.45	3.85 / 3.28
EER/COP		Cooling/Heating 2.73 / 3.76	3.44 / 4.55	3.25 / 4.08	3.14 / 3.69
Inrush current		A 5			
Max. current		15.8 19 19 20			
Sound power level*1	Indoor	Cooling/Heating 65 / 65	65 / 65	65 / 65	67 / 67
	Outdoor	Cooling/Heating 67 / 67	67 / 66	68 / 67	73 / 72
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo) dB(A) 38 / 33 / 29 / 25	44 / 38 / 36 / 30	44 / 38 / 36 / 30	45 / 40 / 34 / 29
	Outdoor	Heating (P-Hi/Hi/Me/Lo) 38 / 33 / 29 / 25	44 / 38 / 36 / 30	44 / 38 / 36 / 30	45 / 40 / 34 / 29
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo) m³/min 24 / 19 / 15 / 10	36 / 28 / 25 / 19	36 / 28 / 25 / 19	39 / 32 / 26 / 20
	Outdoor	Heating (P-Hi/Hi/Me/Lo) 24 / 19 / 15 / 10	36 / 28 / 25 / 19	36 / 28 / 25 / 19	39 / 32 / 26 / 20
External static pressure*2		Pa Standard:35 Max:100	Standard:60 Max:100		
Exterior dimensions	Indoor	HeightxWidthxDepth mm 280 x 950 x 635	280 x 1,370 x 740		
	Outdoor	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370	
Net weight	Indoor	kg 34	54		
	Outdoor	45	57	73	
Ref.piping size		Liquid/Gas ømm 6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")		9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length		m Max.30			
Vertical height differences		m Max.20 / Max.20			
Outdoor operating temperature range		Cooling °CDB -15~46*3	Heating °CWB -15~20		
Air filter (option)		Filter kit : UM-FL2EF		Filter kit : UM-FL3EF	
Remote control (option)		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2			

R410A		Standard Inverter		
Set model name		FDUM71VNPVH	FDUM90VNP1VH	FDUM100VNP1VH
Indoor unit		FDUM71VH	FDUM100VH	FDUM100VH
Outdoor unit		FDC71VNP	FDC90VNP1	FDC100VNP
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)		kW 7.1 ( 1.4 ~ 7.1 )	9.0 ( 1.9 ~ 9.0 )	10.0 ( 2.8 ~ 11.2 )
Nominal heating capacity (Min~Max)		kW 7.1 ( 1.0 ~ 7.1 )	9.0 ( 1.5 ~ 9.0 )	11.2 ( 2.5 ~ 12.5 )
Power consumption		Cooling/Heating kW 2.60 / 1.89	2.69 / 2.25	3.00 / 2.93
EER/COP		Cooling/Heating 2.73 / 3.76	3.35 / 4.00	3.33 / 3.82
Inrush current		A 5		
Max. current		14.5 18 22		
Sound power level*1	Indoor	Cooling/Heating 65 / 65	65 / 65	65 / 65
	Outdoor	Cooling/Heating 67 / 67	69 / 69	70 / 70
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo) dB(A) 38 / 33 / 29 / 25	44 / 38 / 36 / 30	44 / 38 / 36 / 30
	Outdoor	Heating (P-Hi/Hi/Me/Lo) 38 / 33 / 29 / 25	44 / 38 / 36 / 30	44 / 38 / 36 / 30
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo) m³/min 24 / 19 / 15 / 10	36 / 28 / 25 / 19	36 / 28 / 25 / 19
	Outdoor	Heating (P-Hi/Hi/Me/Lo) 24 / 19 / 15 / 10	36 / 28 / 25 / 19	36 / 28 / 25 / 19
External static pressure*2		Pa Standard:35 Max:100	Standard:60 Max:100	
Exterior dimensions	Indoor	HeightxWidthxDepth mm 280 x 950 x 635	280 x 1,370 x 740	
	Outdoor	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370
Net weight	Indoor	kg 34	54	
	Outdoor	45	57	70
Ref.piping size		Liquid/Gas ømm 6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")	
Refrigerant line (one way) length		m Max.30		
Vertical height differences		m Max.20 / Max.20		
Outdoor operating temperature range		Cooling °CDB -15~46*3	Heating °CWB -15~20	
Air filter (option)		Filter kit : UM-FL2EF		Filter kit : UM-FL3EF
Remote control (option)		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-KIT4-E2		

# SRK Indoor Unit Wall Mounted

**SRK 50•60**  
Only used with  
Multi System.



**SRK 71•100**  
Common to the  
both case of  
Single and Multi



Wireless LAN Built-in  
**SRK 71•100**  
Only connected to  
R32 outdoor unit.



Remote control (option)



\*Not all functions available with all remote control options.

## Elegant Timeless Design

The SRK series air-conditioners have been innovatively designed with rounded contours that fit beautifully into any of Europe's diverse interior settings.

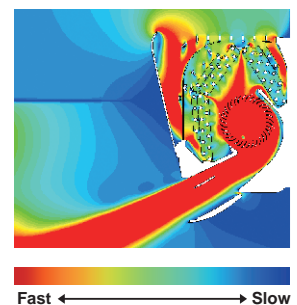
The design was created by the Italian industrial design studio Tensa srl, based in Milan, to respond to a broad spectrum of requirements.(SRK50•60)

## Jet Air Technology

We used the same aerodynamic analysis technology as used in developing jet engines.



CFD (computational fluid dynamics), used in blade shape design of jet engines, has been applied to the design of air channels in air conditioners to develop the ideal air channel system (air circulation).  
The jet air stream generated by this air channel system can bring large volumes of air without consuming a great amount of power. While at the same time, it delivers a consistent breeze evenly throughout the room.



Fast ← → Slow  
Colours in the figure show the air speed.

## Long Reach Air Flow

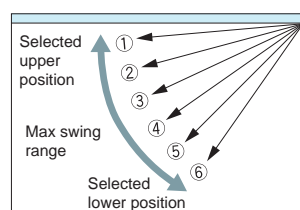
Long reach airflow is achieved by Jet technology. Good for large living rooms and shops, which increases comfort.



## Flap Control System

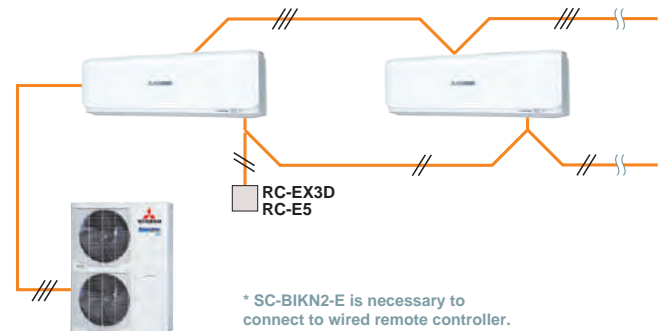
The flap can swing within the range of upper and lower flap position selected.

\* The wireless remote control is not applicable to the flap control system.



## Indoor Unit Connection

Up to three indoor units are connectable to one outdoor unit.



\* SC-BIKN2-E is necessary to connect to wired remote controller.

## SC-BIKN2-E connection (Option)

Interface kit can be built into indoor unit.(SRK50•60)

\* SC-BIKN2-E cannot be used simultaneously with the Wireless LAN control system

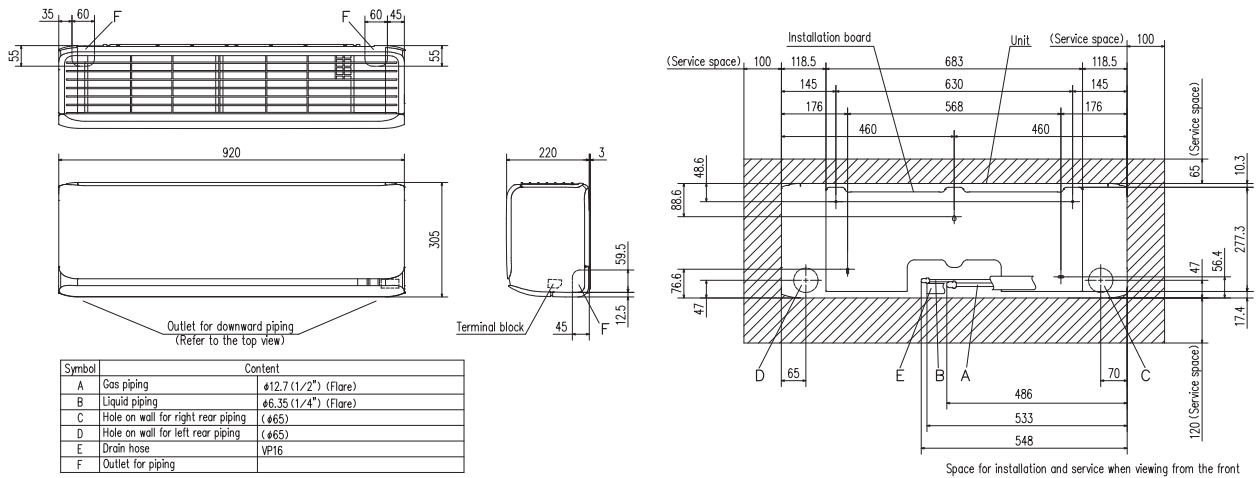
**OUTDOOR UNIT**

		Hyper Inverter		Micro Inverter		
FDC		71VNX-W	100~140VN(S)X-W	100~140VN(S)A-W	-	200VSA-W
		-	100~140VN(S)X	100VN(S)A	200VSA	-
model						
Chargeless		30m			30m	
Height x Width x Depth (mm)		750 x 880(+88) x 340	1,300 x 970 x 370	845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370

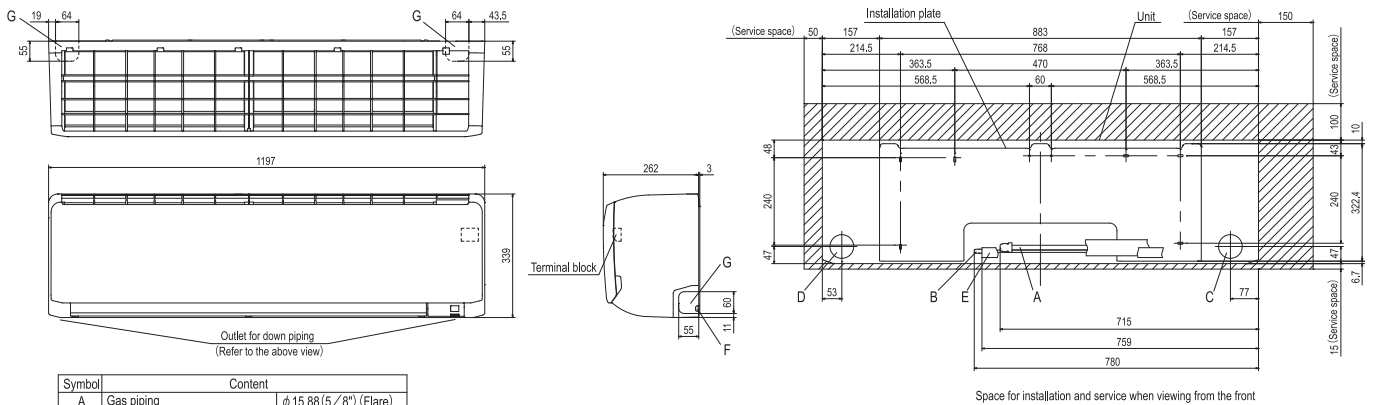
		Standard Inverter		
FDC		71VNP-W	100VNP-W	-
		-	-	100VNP
model				
Chargeless		15m		
Height x Width x Depth (mm)		640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370

**DIMENSIONS (Unit:mm) - SRK -**

**Models SRK50ZSX-W, 60ZSX-W**



**Models SRK71ZR-W, 71ZR-WF, 100ZR-W, 100ZR-WF**



## SPECIFICATIONS - SRK -

R32		Hyper Inverter						
Set model name		SRK71VNXWZRF	SRK71VNXWZR	SRK100VNXWZRF	SRK100VNXWZR	SRK100VSVXWZRF	SRK100VSVXWZR	
Indoor unit		SRK71ZR-WF	SRK71ZR-W	SRK100ZR-WF	SRK100ZR-W	SRK100ZR-WF	SRK100ZR-W	
Outdoor unit		FDC71VNX-W	FDC71VNX-W	FDC100VNX-W	FDC100VNX-W	FDC100VSVX-W	FDC100VSVX-W	
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz				3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)		kW 7.1 (3.2 ~ 8.0)		kW 10.0 (3.5 ~ 11.2)		kW 10.0 (3.5 ~ 11.2)		
Nominal heating capacity (Min~Max)		kW 8.0 (3.6 ~ 9.0)		kW 11.2 (2.7 ~ 12.5)		kW 11.2 (2.7 ~ 16.0)		
Power consumption		kW 1.93 / 1.78		kW 2.74 / 3.04		kW 2.74 / 3.04		
EER/COP		Cooling/Heating 3.68 / 4.49		Cooling/Heating 3.65 / 3.69		Cooling/Heating 3.65 / 3.69		
Inrush current		A 5		A 5		A 5		
Max. current		A 19.1		A 25		A 14		
Sound power level*1	Indoor	Cooling/Heating 57 / 60		Cooling/Heating 63 / 63		Cooling/Heating 63 / 63		
	Outdoor	Cooling/Heating 66 / 66		Cooling/Heating 67 / 67		Cooling/Heating 67 / 67		
Sound pressure level*1	Indoor	Cooling (Hi/Me/Lo/Ulo) 44 / 41 / 37 / 25		Cooling (Hi/Me/Lo/Ulo) 48 / 45 / 40 / 27		Cooling (Hi/Me/Lo/Ulo) 48 / 45 / 40 / 27		
	Outdoor	Cooling (Hi/Me/Lo/Ulo) 46 / 39 / 35 / 28		Cooling (Hi/Me/Lo/Ulo) 48 / 43 / 38 / 30		Cooling (Hi/Me/Lo/Ulo) 48 / 43 / 38 / 30		
Air flow	Indoor	Cooling (Hi/Me/Lo/Ulo)	m <sup>3</sup> /min 20.5 / 18.6 / 16.2 / 10.4		m <sup>3</sup> /min 24.5 / 21.3 / 17.6 / 10.4		m <sup>3</sup> /min 24.5 / 21.3 / 17.6 / 10.4	
		Heating (Hi/Me/Lo/Ulo)	m <sup>3</sup> /min 25.0 / 19.8 / 17.3 / 13.3		m <sup>3</sup> /min 27.5 / 23.2 / 19.1 / 13.6		m <sup>3</sup> /min 27.5 / 23.2 / 19.1 / 13.6	
	Outdoor	Cooling/Heating 60 / 50		Cooling/Heating 100 / 100		Cooling/Heating 100 / 100		
Exterior dimensions	Indoor	HeightxWidthxDepth mm 750 x 880(+88) x 340		339 x 1,197 x 262				
	Outdoor	mm 15.5		mm 16.5				
Net weight	Indoor	kg 60		kg 97		kg 99		
	Outdoor	kg 60		kg 97		kg 99		
Ref.piping size	Liquid/Gas	ømm 9.52(3/8") / 15.88(5/8")						
Refrigerant line (one way) length		m Max.50			m Max.100			
Vertical height differences	Outdoor is higher/lower	m Max.30 / Max.15			m Max.50 / Max.15			
Outdoor operating temperature range	Cooling	°CDB -15~-50*2						
	Heating	°CWB -20~20						
Air filter, Q'ty		Polypropylene net x 2(washable)						
Remote control (option)		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 & Interface kit:SC-BIKN2-E						

The values are for simultaneous Multi operation.

R32		Hyper Inverter		
Set model name		SRK100VNXWPZSX	SRK125VNXWPZSX	SRK140VNXWTZSX
Indoor unit		Twin SRK50ZSX-W x 2		Triple SRK50ZSX-W x 3
Outdoor unit		FDC100VNX-W		FDC125VNX-W
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)		kW 10.0 (3.5 ~ 11.2)		kW 12.5 (3.5 ~ 14.0)
Nominal heating capacity (Min~Max)		kW 11.2 (2.7 ~ 12.5)		kW 14.0 (2.7 ~ 17.0)
Power consumption		kW 2.47 / 2.60		kW 3.43 / 3.42
EER/COP		Cooling/Heating 4.05 / 4.31		Cooling/Heating 3.64 / 4.09
Inrush current		A 5		A 5
Max. current		A 25		A 27
Sound power level*1	Indoor*3	Cooling/Heating 59 / 62		Cooling/Heating 62 / 63
	Outdoor	Cooling/Heating 67 / 67		Cooling/Heating 68 / 70
Sound pressure level*1	Indoor*3	Cooling (Hi/Me/Lo/Ulo) 44 / 39 / 31 / 22		Cooling (Hi/Me/Lo/Ulo) 46 / 41 / 33 / 22
	Outdoor	Cooling (Hi/Me/Lo/Ulo) 46 / 41 / 33 / 23		Cooling (Hi/Me/Lo/Ulo) 46 / 42 / 34 / 23
Air flow	Indoor*3	Cooling (Hi/Me/Lo/Ulo)	m <sup>3</sup> /min 14.3 / 12.4 / 7.8 / 5.4	
		Heating (Hi/Me/Lo/Ulo)	m <sup>3</sup> /min 17.3 / 14.3 / 9.8 / 6.2	
	Outdoor	Cooling/Heating 100 / 100		Cooling/Heating 100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth mm 305 x 920 x 220		
	Outdoor	mm 1,300 x 970 x 370		
Net weight	Indoor	kg 13		
	Outdoor	kg 97		
Ref.piping size	Liquid/Gas	ømm 9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m Max.100		m Max.65
Vertical height differences	Outdoor is higher/lower	m Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°CDB -15~-50*2		
	Heating	°CWB -20~20		
Air filter, Q'ty		Polypropylene net x 2(washable)		
Remote control (option)		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 & Interface kit:SC-BIKN2-E		

### NOTES:

The data are measured under the following conditions (R32 : ISO-T1, -H1 / R410A : ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

R32			Hyper Inverter		
Set model name			SRK100VSXWPZSX	SRK125VSXWPZSX	SRK140VSXWTZSX
			Twin		Triple
Indoor unit			SRK50ZSX-W x 2	SRK60ZSX-W x 2	SRK50ZSX-W x 3
Outdoor unit			FDC100VSX-W	FDC125VSX-W	FDC140VSX-W
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	10.0 ( 3.5 ~ 11.2 )	12.5 ( 3.5 ~ 14.0 )	14.0 ( 3.5 ~ 16.0 )
Nominal heating capacity (Min~Max)		kW	11.2 ( 2.7 ~ 12.5 )	14.0 ( 2.7 ~ 18.0 )	16.0 ( 2.7 ~ 20.0 )
Power consumption	Cooling/Heating	kW	2.47 / 2.60	3.43 / 3.42	4.03 / 4.04
EER/COP	Cooling/Heating		4.05 / 4.31	3.64 / 4.09	3.48 / 3.96
Inrush current		A	5	5	5
Max. current			14	14	14
Sound power level*1	Indoor*3	Cooling/Heating	59 / 62	62 / 63	59 / 62
	Outdoor	Cooling/Heating	67 / 67	68 / 70	69 / 71
Sound pressure level*1	Indoor*3	Cooling (Hi/Me/Lo/Ulo)	44 / 39 / 31 / 22	46 / 41 / 33 / 22	44 / 39 / 31 / 22
		Heating (Hi/Me/Lo/Ulo)	46 / 41 / 33 / 23	46 / 42 / 34 / 23	46 / 41 / 33 / 23
	Outdoor	Cooling/Heating	53 / 51	53 / 54	54 / 54
Air flow	Indoor*3	Cooling (Hi/Me/Lo/Ulo)	14.3 / 12.4 / 7.8 / 5.4	16.3 / 13.4 / 8.9 / 5.4	14.3 / 12.4 / 7.8 / 5.4
		Heating (Hi/Me/Lo/Ulo)	17.3 / 14.3 / 9.8 / 6.2	17.8 / 13.7 / 10.9 / 6.2	17.3 / 14.3 / 9.8 / 6.2
	Outdoor	Cooling/Heating	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	305 x 920 x 220		
	Outdoor		1,300 x 970 x 370		
Net weight	Indoor		13		
	Outdoor		99		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m	Max.100		Max.65
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50*2		
	Heating	°CWB	-20~20		
Air filter, Q'ty			Polypropylene net x 2(washable)		
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 & Interface kit:SC-BIKN2-E		

The values are for simultaneous Multi operation.

R410A			Hyper Inverter		
Set model name			SRK100VNXPZSX	SRK125VNXPZSX	SRK140VNXTZSX
			Twin		Triple
Indoor unit			SRK50ZSX-W x 2	SRK60ZSX-W x 2	SRK50ZSX-W x 3
Outdoor unit			FDC100VNX	FDC125VNX	FDC140VNX
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)		kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 17.0 )	16.0 ( 4.0 ~ 18.0 )
Power consumption	Cooling/Heating	kW	2.66 / 2.60	3.60 / 3.48	3.98 / 3.68
EER/COP	Cooling/Heating		3.76 / 4.31	3.47 / 4.02	3.52 / 4.35
Inrush current		A	5	5	5
Max. current			24	26	26
Sound power level*1	Indoor*3	Cooling/Heating	59 / 62	62 / 63	59 / 62
	Outdoor	Cooling/Heating	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor*3	Cooling (Hi/Me/Lo/Ulo)	44 / 39 / 31 / 22	46 / 41 / 33 / 22	44 / 39 / 31 / 22
		Heating (Hi/Me/Lo/Ulo)	46 / 41 / 33 / 23	46 / 42 / 34 / 23	46 / 41 / 33 / 23
	Outdoor	Cooling/Heating	48 / 50	48 / 50	49 / 52
Air flow	Indoor*3	Cooling (Hi/Me/Lo/Ulo)	14.3 / 12.4 / 7.8 / 5.4	16.3 / 13.4 / 8.9 / 5.4	14.3 / 12.4 / 7.8 / 5.4
		Heating (Hi/Me/Lo/Ulo)	17.3 / 14.3 / 9.8 / 6.2	17.8 / 13.7 / 10.9 / 6.2	17.3 / 14.3 / 9.8 / 6.2
	Outdoor	Cooling/Heating	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	305 x 920 x 220		
	Outdoor		1,300 x 970 x 370		
Net weight	Indoor		13		
	Outdoor		105		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m	Max.100		
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~43*2		
	Heating	°CWB	-20~20		
Air filter, Q'ty			Polypropylene net x 2(washable)		
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 & Interface kit:SC-BIKN2-E		

# SPECIFICATIONS - SRK -

The values are for simultaneous Multi operation.

R410A			Hyper Inverter		
Set model name			SRK100VSPZSX	SRK125VSPZSX	SRK140VSTZSX
			Twin		Triple
Indoor unit			SRK50ZSX-W x 2	SRK60ZSX-W x 2	SRK50ZSX-W x 3
Outdoor unit			FDC100VSX	FDC125VSX	FDC140VSX
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min-Max)	kW		10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min-Max)	kW		11.2 ( 4.0 ~ 16.0 )	14.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )
Power consumption	Cooling/Heating	kW	2.66 / 2.60	3.60 / 3.48	3.98 / 3.68
EER/COP	Cooling/Heating		3.76 / 4.31	3.47 / 4.02	3.52 / 4.35
Inrush current		A	5	5	5
Max. current			15	15	15
Sound power level*1	Indoor*3	Cooling/Heating	59 / 62	62 / 63	59 / 62
	Outdoor	Cooling/Heating	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor*3	Cooling (Hi/Me/Lo/Ulo)	44 / 39 / 31 / 22	46 / 41 / 33 / 22	44 / 39 / 31 / 22
		Heating (Hi/Me/Lo/Ulo)	46 / 41 / 33 / 23	46 / 42 / 34 / 23	46 / 41 / 33 / 23
	Outdoor	Cooling/Heating	48 / 50	48 / 50	49 / 52
Air flow	Indoor*3	Cooling (Hi/Me/Lo/Ulo)	14.3 / 12.4 / 7.8 / 5.4	16.3 / 13.4 / 8.9 / 5.4	14.3 / 12.4 / 7.8 / 5.4
		Heating (Hi/Me/Lo/Ulo)	17.3 / 14.3 / 9.8 / 6.2	17.8 / 13.7 / 10.9 / 6.2	17.3 / 14.3 / 9.8 / 6.2
	Outdoor	Cooling/Heating	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	305 x 920 x 220		
	Outdoor		1,300 x 970 x 370		
Net weight	Indoor		13		
	Outdoor		105		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m	Max.100		
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~43*2		
	Heating	°CWB	-20~20		
Air filter, Q'ty			Polypropylene net x 2(washable)		
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 & Interface kit:SC-BIKN2-E		

R32			Micro Inverter			
Set model name			SRK100VNAWZRF	SRK100VNAWZR	SRK100VSAWZRF	SRK100VSAWZR
Indoor unit			SRK100ZR-WF	SRK100ZR-W	SRK100ZR-WF	SRK100ZR-W
Outdoor unit			FDC100VNA-W	FDC100VNA-W	FDC100VSA-W	FDC100VSA-W
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		3 Phase 380-415V, 50Hz / 380V, 60Hz	
Nominal cooling capacity (Min-Max)	kW		10.0 ( 4.0 ~ 11.2 )	10.0 ( 4.0 ~ 11.2 )	10.0 ( 4.0 ~ 11.2 )	10.0 ( 4.0 ~ 11.2 )
Nominal heating capacity (Min-Max)	kW		11.2 ( 4.0 ~ 12.5 )	11.2 ( 4.0 ~ 12.5 )	11.2 ( 4.0 ~ 12.5 )	11.2 ( 4.0 ~ 12.5 )
Power consumption	Cooling/Heating	kW	3.19 / 3.04	3.19 / 3.04	3.19 / 3.04	3.19 / 3.04
EER/COP	Cooling/Heating		3.13 / 3.68	3.13 / 3.68	3.13 / 3.68	3.13 / 3.68
Inrush current		A	5	5	5	5
Max. current			24	24	15	15
Sound power level*1	Indoor	Cooling/Heating	63 / 63	63 / 63	63 / 63	63 / 63
	Outdoor	Cooling/Heating	69 / 70	69 / 70	69 / 70	69 / 70
Sound pressure level*1	Indoor	Cooling (Hi/Me/Lo/Ulo)	48 / 45 / 40 / 27	48 / 45 / 40 / 27	48 / 45 / 40 / 27	48 / 45 / 40 / 27
		Heating (Hi/Me/Lo/Ulo)	48 / 43 / 38 / 30	48 / 43 / 38 / 30	48 / 43 / 38 / 30	48 / 43 / 38 / 30
	Outdoor	Cooling/Heating	54 / 55	54 / 55	54 / 55	54 / 55
Air flow	Indoor	Cooling (Hi/Me/Lo/Ulo)	24.5 / 21.3 / 17.6 / 10.4	24.5 / 21.3 / 17.6 / 10.4	24.5 / 21.3 / 17.6 / 10.4	24.5 / 21.3 / 17.6 / 10.4
		Heating (Hi/Me/Lo/Ulo)	27.5 / 23.2 / 19.1 / 13.6	27.5 / 23.2 / 19.1 / 13.6	27.5 / 23.2 / 19.1 / 13.6	27.5 / 23.2 / 19.1 / 13.6
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	339 x 1,197 x 262			
	Outdoor		845 x 970 x 370			
Net weight	Indoor		16.5			
	Outdoor		77		78	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length		m	Max.50			
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15			
Outdoor operating temperature range	Cooling	°CDB	-15~50*2			
	Heating	°CWB	-20~20			
Air filter, Q'ty			Polypropylene net x2 (Washable)			
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 & Interface kit:SC-BIKN2-E			

**NOTES:**

The data are measured under the following conditions (R32 : ISO-T1, -H1 / R410A : ISO-T1).  
 Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
 \*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  
 \*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.  
 \*3 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

R32		Micro Inverter				
Set model name		SRK100VNAWPZSX	SRK125VNAWPZSX	SRK140VNAWPZR	SRK140VNAWTZSX	
		Twin		Triple		
Indoor unit		SRK50ZSX-W x 2	SRK60ZSX-W x 2	SRK71ZR-W x 2	SRK50ZSX-W x 3	
Outdoor unit		FDC100VNA-W	FDC125VNA-W	FDC140VNA-W	FDC140VNA-W	
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)	kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )	13.6 ( 5.0 ~ 14.5 )	
Nominal heating capacity (Min~Max)	kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )	15.5 ( 4.0 ~ 16.5 )	
Power consumption	Cooling/Heating kW	2.89 / 2.61	4.54 / 3.58	4.26 / 4.03	4.26 / 3.74	
EER/COP	Cooling/Heating	3.46 / 4.29	2.76 / 3.91	3.19 / 3.85	3.19 / 4.14	
Inrush current	A	5	5	5	5	
Max. current		24	24	24	24	
Sound power level*1	Indoor <sup>+3</sup>	Cooling/Heating	59 / 62	62 / 63	57 / 60	59 / 62
	Outdoor	Cooling/Heating	69 / 70	71 / 71	72 / 73	72 / 73
Sound pressure level*1	Indoor <sup>+3</sup>	Cooling (Hi/Me/Lo/Ulo)	44 / 39 / 31 / 22	46 / 41 / 33 / 22	44 / 41 / 37 / 25	44 / 39 / 31 / 22
	Outdoor	Cooling/Heating	46 / 41 / 33 / 23	46 / 42 / 34 / 23	46 / 39 / 35 / 28	46 / 41 / 33 / 23
Air flow	Indoor <sup>+3</sup>	Cooling (Hi/Me/Lo/Ulo)	14.3 / 12.4 / 7.8 / 5.4	16.3 / 13.4 / 8.9 / 5.4	20.5 / 18.6 / 16.2 / 10.4	14.3 / 12.4 / 7.8 / 5.4
	Outdoor	Cooling/Heating	17.3 / 14.3 / 9.8 / 6.2	17.8 / 13.7 / 10.9 / 6.2	25.0 / 19.8 / 17.3 / 13.3	17.3 / 14.3 / 9.8 / 6.2
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	305 x 920 x 220		305 x 920 x 220
	Outdoor			845 x 970 x 370		
Net weight	Indoor		kg	13		13
	Outdoor			77		
Ref.piping size	Liquid/Gas			9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length				Max.50		
Vertical height differences	Outdoor is higher/lower			Max.50 / Max.15		
Outdoor operating temperature range	Cooling			-15~50*2		
	Heating			-20~20		
Air filter, Q'ty				Polypropylene net x 2(washable)		
Remote control (option)				wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 & Interface kit:SC-BIKN2-E		

The values are for simultaneous Multi operation.

R32		Micro Inverter				
Set model name		SRK100VSAWPZSX	SRK125VSAWPZSX	SRK140VSAWPZR	SRK140VSAWTZSX	
		Twin		Triple		
Indoor unit		SRK50ZSX-W x 2	SRK60ZSX-W x 2	SRK71ZR-W x 2	SRK50ZSX-W x 3	
Outdoor unit		FDC100VSA-W	FDC125VSA-W	FDC140VSA-W	FDC140VSA-W	
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)	kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )	13.6 ( 5.0 ~ 14.5 )	
Nominal heating capacity (Min~Max)	kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )	15.5 ( 4.0 ~ 16.5 )	
Power consumption	Cooling/Heating kW	2.89 / 2.61	4.54 / 3.58	4.26 / 4.03	4.26 / 3.74	
EER/COP	Cooling/Heating	3.46 / 4.29	2.76 / 3.91	3.19 / 3.85	3.19 / 4.14	
Inrush current	A	5	5	5	5	
Max. current		15	15	15	15	
Sound power level*1	Indoor <sup>+3</sup>	Cooling/Heating	59 / 62	62 / 63	57 / 60	59 / 62
	Outdoor	Cooling/Heating	69 / 70	71 / 71	72 / 73	72 / 73
Sound pressure level*1	Indoor <sup>+3</sup>	Cooling (Hi/Me/Lo/Ulo)	44 / 39 / 31 / 22	46 / 41 / 33 / 22	44 / 41 / 37 / 25	44 / 39 / 31 / 22
	Outdoor	Cooling/Heating	46 / 41 / 33 / 23	46 / 42 / 34 / 23	46 / 39 / 35 / 28	46 / 41 / 33 / 23
Air flow	Indoor <sup>+3</sup>	Cooling (Hi/Me/Lo/Ulo)	14.3 / 12.4 / 7.8 / 5.4	16.3 / 13.4 / 8.9 / 5.4	20.5 / 18.6 / 16.2 / 10.4	14.3 / 12.4 / 7.8 / 5.4
	Outdoor	Cooling/Heating	17.3 / 14.3 / 9.8 / 6.2	17.8 / 13.7 / 10.9 / 6.2	25.0 / 19.8 / 17.3 / 13.3	17.3 / 14.3 / 9.8 / 6.2
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	305 x 920 x 220		305 x 920 x 220
	Outdoor			845 x 970 x 370		
Net weight	Indoor		kg	13		13
	Outdoor			78		
Ref.piping size	Liquid/Gas			9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length				Max.50		
Vertical height differences	Outdoor is higher/lower			Max.50 / Max.15		
Outdoor operating temperature range	Cooling			-15~50*2		
	Heating			-20~20		
Air filter, Q'ty				Polypropylene net x 2(washable)		
Remote control (option)				wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 & Interface kit:SC-BIKN2-E		

## SPECIFICATIONS - SRK -

The values are for simultaneous Multi operation.

R32			Micro Inverter		
Set model name			SRK200VSAWPZRF		SRK200VSAWPZR
			Twin		
Indoor unit			SRK100ZR-WF x 2		SRK100ZR-W x 2
Outdoor unit			FDC200VSA-W		FDC200VSA-W
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			20.0 ( 7.0 ~ 22.4 )		20.0 ( 7.0 ~ 22.4 )
Nominal heating capacity (Min~Max)			22.4 ( 6.6 ~ 25.0 )		22.4 ( 6.6 ~ 25.0 )
Power consumption			7.46 / 6.87		7.46 / 6.87
EER/COP			2.68 / 3.26		2.68 / 3.26
Inrush current			5		5
Max. current			19		19
Sound power level*1	Indoor	Cooling/Heating	63 / 63		63 / 63
	Outdoor	Cooling/Heating	72 / 74		72 / 74
Sound pressure level*1	Indoor	Cooling (Hi/Me/Lo/Ulo)	48 / 45 / 40 / 27		48 / 45 / 40 / 27
		Heating (Hi/Me/Lo/Ulo)	48 / 43 / 38 / 30		48 / 43 / 38 / 30
Air flow	Indoor	Cooling (Hi/Me/Lo/Ulo)	24.5 / 21.3 / 17.6 / 10.4		24.5 / 21.3 / 17.6 / 10.4
		Heating (Hi/Me/Lo/Ulo)	27.5 / 23.2 / 19.1 / 13.6		27.5 / 23.2 / 19.1 / 13.6
Exterior dimensions	Indoor	HeightxWidthxDepth	339 x 1,197 x 262		148 / 134
			Outdoor	1,505 x 970 x 370	
Net weight	Indoor		16.5		144
			Outdoor	144	
Ref.piping size			Liquid/Gas		ømm
Refrigerant line (one way) length			9.52(3/8") / 22.22(7/8")		
Vertical height differences			Max.50 <sup>4</sup> / Max.15		
Outdoor operating temperature range			Cooling		°CDB
			Heating		°CWB
Air filter, Q'ty			Polypropylene net x2 (Washable)		
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 & Interface kit:SC-BIKN2-E		

The values are for simultaneous Multi operation.

R410A			Micro Inverter		
Set model name			SRK100VNAZR	SRK100VSAZR	SRK200VSAAPZR
			Twin		
Indoor unit			SRK100ZR-W		SRK100ZR-W x 2
Outdoor unit			FDC100VNA		FDC100VSA
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		3 Phase 380-415V, 50Hz / 380V, 60Hz
Nominal cooling capacity (Min~Max)			10.0 ( 4.0 ~ 11.2 )		19.0 ( 5.2 ~ 22.4 )
Nominal heating capacity (Min~Max)			11.2 ( 4.0 ~ 12.5 )		22.4 ( 3.3 ~ 25.0 )
Power consumption			3.19 / 2.78		7.52 / 7.41
EER/COP			3.13 / 4.03		2.53 / 3.02
Inrush current			5		5
Max. current			24		20
Sound power level*1	Indoor*3	Cooling/Heating	63 / 63		63 / 63
	Outdoor	Cooling/Heating	70 / 70		72 / 74
Sound pressure level*1	Indoor*3	Cooling (Hi/Me/Lo/Ulo)	48 / 45 / 40 / 27		48 / 45 / 40 / 27
		Heating (Hi/Me/Lo/Ulo)	48 / 43 / 38 / 30		48 / 43 / 38 / 30
Air flow	Indoor*3	Cooling (Hi/Me/Lo/Ulo)	24.5 / 21.3 / 17.6 / 10.4		24.5 / 21.3 / 17.6 / 10.4
		Heating (Hi/Me/Lo/Ulo)	27.5 / 23.2 / 19.1 / 13.6		27.5 / 23.2 / 19.1 / 13.6
Exterior dimensions	Indoor	HeightxWidthxDepth	339 x 1,197 x 262		135 / 135
			Outdoor	845 x 970 x 370	
Net weight	Indoor		16.5		115
			Outdoor	80	
Ref.piping size			Liquid/Gas		ømm
Refrigerant line (one way) length			9.52(3/8") / 15.88(5/8")		9.52(3/8") / 22.22(7/8")
Vertical height differences			Max.50		Max.70
Outdoor operating temperature range			Max.50 / Max.15		Max.30 / Max.15
Outdoor operating temperature range			Cooling		°CDB
			Heating		°CWB
Air filter, Q'ty			Polypropylene net x2 (Washable)		
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 & Interface kit:SC-BIKN2-E		

### NOTES:

The data are measured under the following conditions (R32 : ISO-T1, -H1 / R410A : ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

\*4 : In case of following conditions:Max.50m(Outdoor unit is higher & Outdoor temperature ≤ 43°C), Max.30m(Outdoor unit is higher & Outdoor temperature > 43°C)

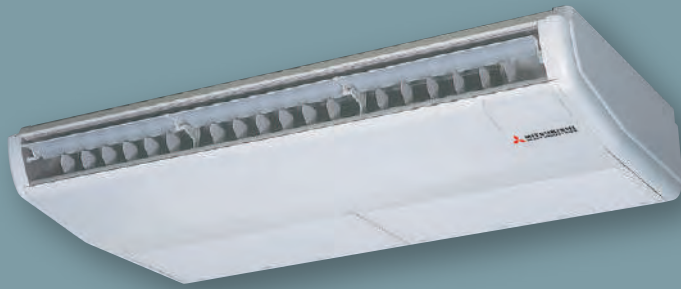


R32		Standard Inverter			
Set model name		SRK71VNPWZRF	SRK71VNPWZR	SRK100VNPWZRF	SRK100VNPWZR
Indoor unit		SRK71ZR-WF	SRK71ZR-W	SRK100ZR-WF	SRK100ZR-W
Outdoor unit		FDC71VNP-W	FDC71VNP-W	FDC100VNP-W	FDC100VNP-W
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)		kW	7.1 ( 1.5 ~ 7.3 )	7.1 ( 1.5 ~ 7.3 )	9.6 ( 2.1 ~ 9.6 )
Nominal heating capacity (Min~Max)		kW	7.1 ( 1.1 ~ 7.3 )	7.1 ( 1.1 ~ 7.3 )	10.0 ( 1.7 ~ 10.4 )
Power consumption		Cooling/Heating	kW	2.36 / 1.88	2.36 / 1.88
EER/COP		Cooling/Heating		3.01 / 3.78	3.01 / 3.78
Inrush current			A	5	5
Max. current				15.8	15.8
Sound power level*1	Indoor*3	Cooling/Heating		57 / 60	57 / 60
	Outdoor	Cooling/Heating		67 / 67	67 / 67
Sound pressure level*1	Indoor*3	Cooling (Hi/Me/Lo/Ulo)	dB(A)	44 / 41 / 37 / 25	44 / 41 / 37 / 25
		Heating (Hi/Me/Lo/Ulo)		46 / 39 / 35 / 28	46 / 39 / 35 / 28
	Outdoor	Cooling/Heating		54 / 54	54 / 54
				56 / 54	56 / 54
Air flow	Indoor*3	Cooling (Hi/Me/Lo/Ulo)	m³/min	20.5 / 18.6 / 16.2 / 10.4	20.5 / 18.6 / 16.2 / 10.4
		Heating (Hi/Me/Lo/Ulo)		25.0 / 19.8 / 17.3 / 13.3	25.0 / 19.8 / 17.3 / 13.3
	Outdoor	Cooling/Heating		42 / 42	42 / 42
				63 / 55	63 / 55
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	339 x 1,197 x 262	
	Outdoor			640 x 800(+71) x 290	750 x 880(+88) x 340
Net weight	Indoor		kg	15.5	
	Outdoor			45	57
Ref.piping size	Liquid/Gas		ømm	6.35(1/4") / 12.7(1/2")	
Refrigerant line (one way) length			m	Max.30	
Vertical height differences	Outdoor is higher/lower		m	Max.20 / Max.20	
Outdoor operating temperature range	Cooling		°CDB	-15~46*2	
	Heating		°CWB	-15~20	
Air filter, Q'ty				Polypropylene net x2 (Washable)	
Remote control (option)				wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 & Interface kit:SC-BIKN2-E	

R410A		Standard Inverter			
Set model name		SRK100VNPW1ZR			
Indoor unit		SRK100ZR-W			
Outdoor unit		FDC100VNP			
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)		kW	10.0 ( 2.4 ~ 10.5 )		
Nominal heating capacity (Min~Max)		kW	11.2 ( 3.2 ~ 11.5 )		
Power consumption		Cooling/Heating	kW	3.09 / 3.28	
EER/COP		Cooling/Heating		3.24 / 3.41	
Inrush current			A	14.4	
Max. current				21	
Sound power level*1	Indoor*3	Cooling/Heating	dB(A)	63 / 63	
	Outdoor	Cooling/Heating		70 / 74	
Sound pressure level*1	Indoor*3	Cooling (Hi/Me/Lo/Ulo)		48 / 45 / 40 / 27	
		Heating (Hi/Me/Lo/Ulo)		48 / 43 / 38 / 30	
	Outdoor	Cooling/Heating		57 / 61	
				75 / 80	
Air flow	Indoor*3	Cooling (Hi/Me/Lo/Ulo)	m³/min	24.5 / 21.3 / 17.6 / 10.4	
		Heating (Hi/Me/Lo/Ulo)		27.5 / 23.2 / 19.1 / 13.6	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	339 x 1,197 x 262	
	Outdoor			845 x 970 x 370	
Net weight	Indoor		kg	16.5	
	Outdoor			70	
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length			m	Max.30	
Vertical height differences	Outdoor is higher/lower		m	Max.20 / Max.20	
Outdoor operating temperature range	Cooling		°CDB	-15~46*2	
	Heating		°CWB	-15~20	
Air filter, Q'ty				Polypropylene net x2 (Washable)	
Remote control (option)				wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 & Interface kit:SC-BIKN2-E	

# FDE

## Indoor Unit Ceiling Suspended



FDE 40/50/60/71/100/125/140



- Energy Saving
- Home Leave
- Hi Power
- Silent Operation
- Flap Control
- Favourite Setting



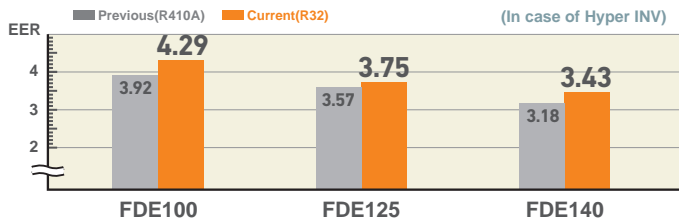
### Remote control (option)



\*Not all functions available with all remote control options.

## High Efficiency

Energy efficiency was improved by use of DC fan motor & high efficient heat exchanger.



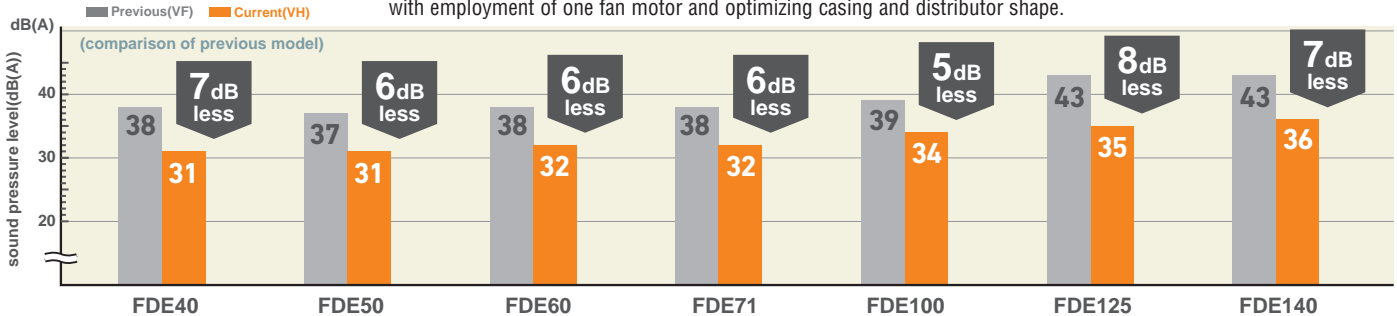
## Lighter than ever

By decreasing the numbers of fan motors from two to one, we reduced the overall weight of our FDE units.

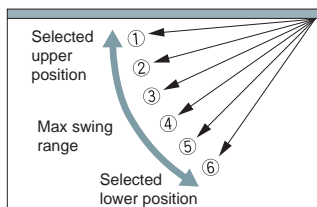
	Previous (VF)	Current (VH)	
60-71VH	37	33	4kg less!!
100-125-140VH	49	43	6kg less!!

## Reduced Noise

The industry's lowest sound pressure levels were achieved by decreasing air flow volume, decreasing pressure loss with employment of one fan motor and optimizing casing and distributor shape.



## Flap Control System

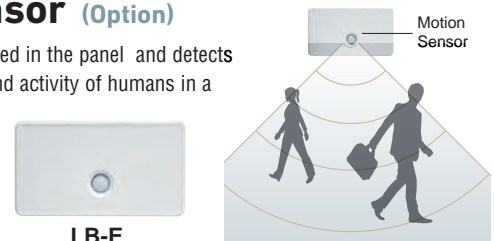


The flap can swing within the range of upper and lower flap position selected.

\* The wireless remote control is not applicable to the flap control system.

## Motion Sensor (Option)

Motion sensor is equipped in the panel and detects the presence/absence and activity of humans in a room to improve the comfort and energy saving performance of the unit.



## Improved Installation Workability

The refrigerant pipe from the unit can be arranged in three directions, rear, right and up. The drain pipe can be arranged in two directions, left and right. This will allow a free layout of piping for various installation conditions. The unit can only be serviced from the bottom.

Increased freedom of a piping layout



### OUTDOOR UNIT

		Hyper Inverter		
SRC • FDC	 	40ZSX-W1,50•60ZSX-W3	71VNX-W	100~140VN(S)X-W
		40~60ZSX-S	71VNX	100~140VN(S)X
model				
Chargeless		15m	30m	
Height x Width x Depth (mm)		640 x 800(+71) x 290	750 x 880(+88) x 340	1,300 x 970 x 370

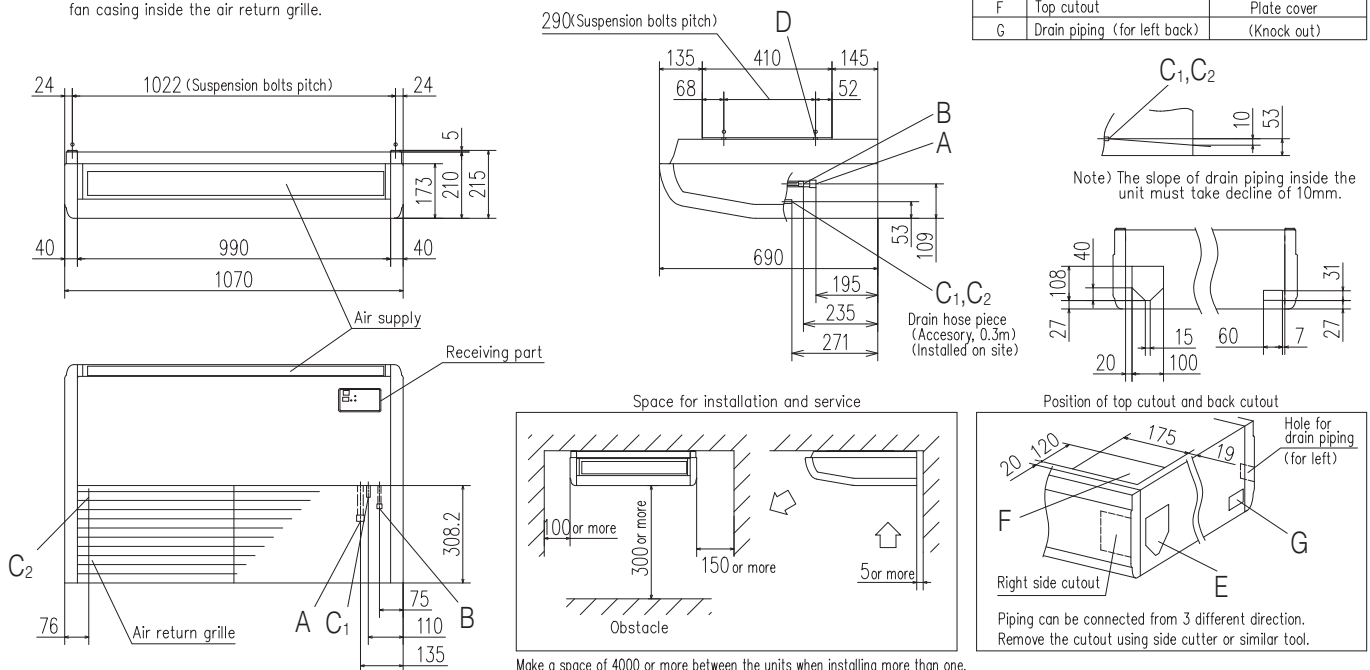
		Micro Inverter			Standard Inverter		
FDC	 	100~140VN(S)A-W	—	200•250•280VSA-W	71VNP-W	90•100VNP-W	125VNP-W
		100~140VN(S)A	200VSA	250VSA	71VNP	90VNP1	100VNP
model							
Chargeless		30m			15m		
Height x Width x Depth (mm)		845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370

### DIMENSIONS (Unit:mm) - FDE -

#### Models FDE40VH, 50VH

Note (1) The model name label is attached on the fan casing inside the air return grille.

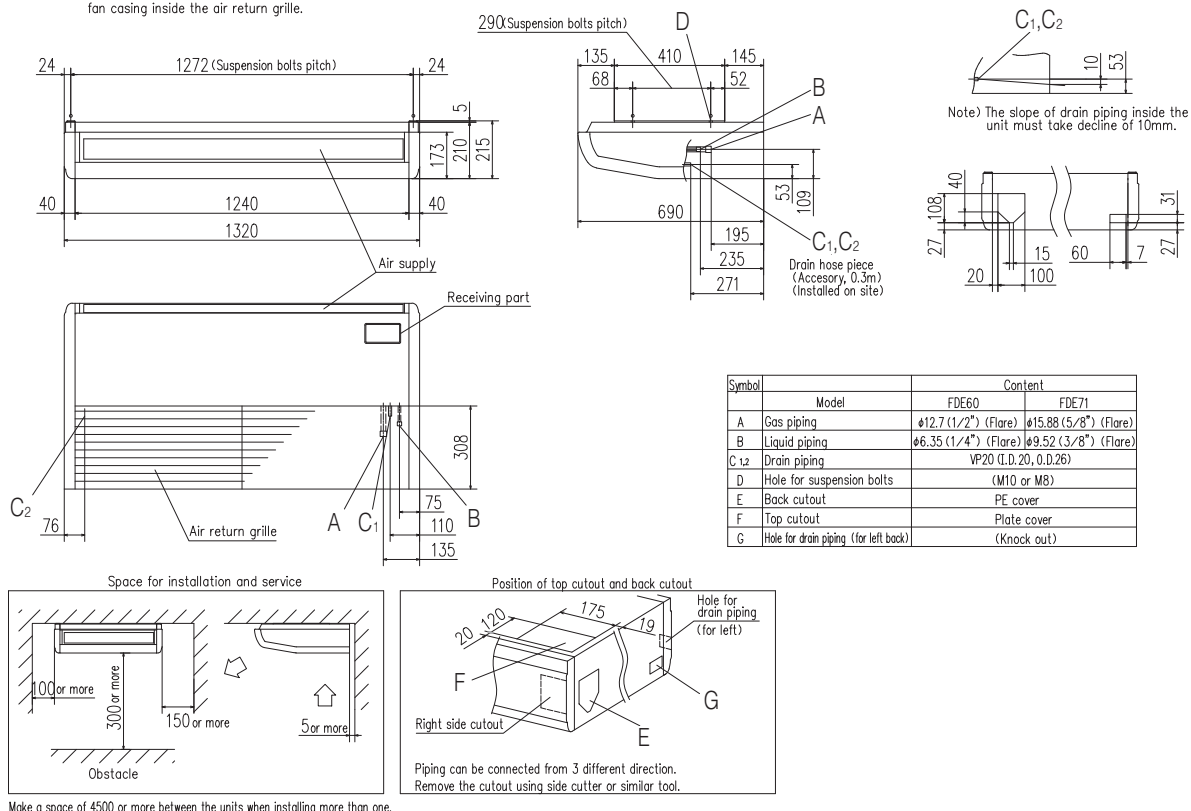
Symbol	Content
A	Gas piping $\phi 12.7 (1/2")$ (Flare)
B	Liquid piping $\phi 6.35 (1/4")$ (Flare)
C <sub>1,2</sub>	Drain piping VP20 (I.D.20, O.D.26)
D	Hole for suspension bolts (M10 or M8)
E	Back cutout PE cover
F	Top cutout Plate cover
G	Drain piping (for left back) (Knock out)



# DIMENSIONS (Unit:mm) - FDE -

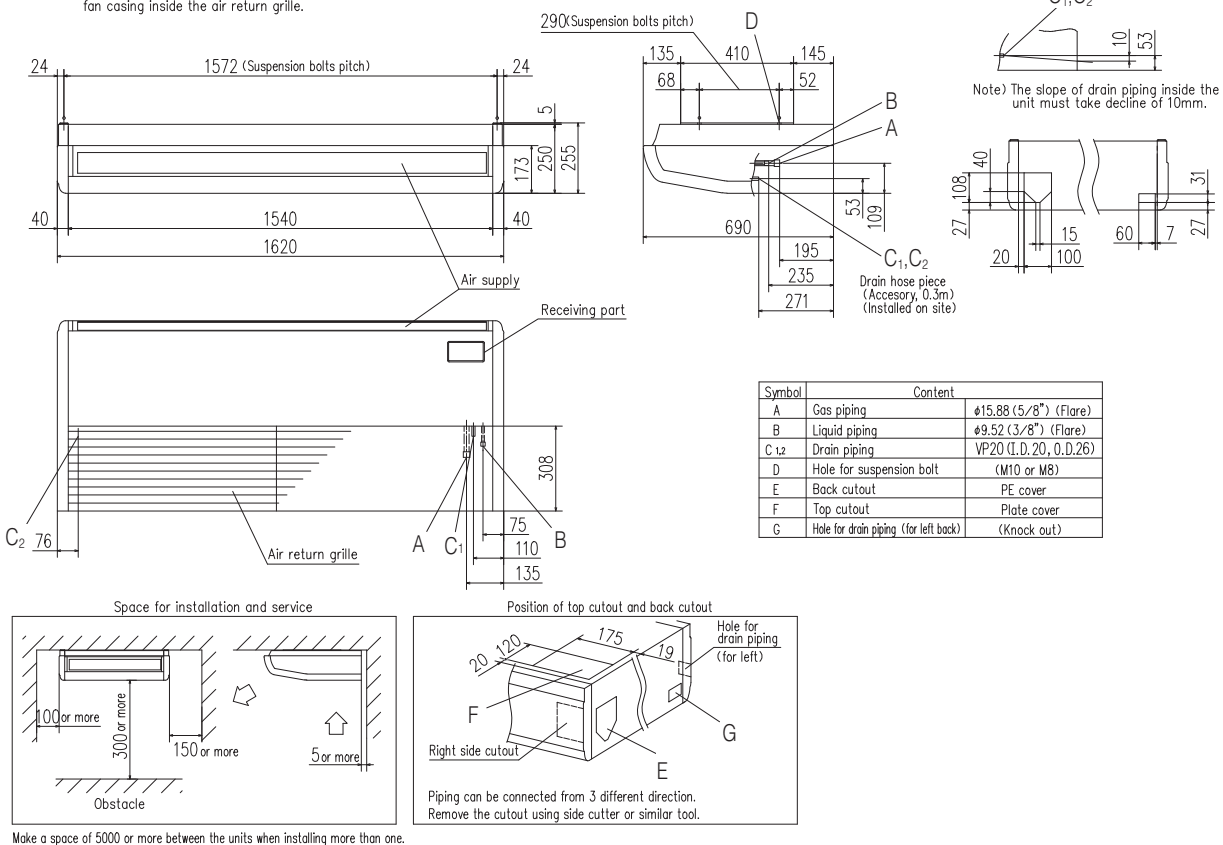
## Models FDE60VH, 71VH

Note (1) The model name label is attached on the fan casing inside the air return grille.



## Models FDE100VH, 125VH, 140VH

Note (1) The model name label is attached on the fan casing inside the air return grille.



R32		Hyper Inverter		
Set model name		FDE40ZSXW1VH	FDE50ZSXW3VH	FDE60ZSXW3VH
Indoor unit		FDE40VH	FDE50VH	FDE60VH
Outdoor unit		SRC40ZSX-W1	SRC50ZSX-W3	SRC60ZSX-W3
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)		kW 4.0 ( 1.1 ~ 4.7 )	5.0 ( 1.1 ~ 5.6 )	5.6 ( 1.1 ~ 6.3 )
Nominal heating capacity (Min~Max)		kW 4.5 ( 0.6 ~ 5.4 )	5.4 ( 0.6 ~ 6.3 )	6.7 ( 0.6 ~ 7.1 )
Power consumption		Cooling/Heating kW 1.02 / 1.10	1.43 / 1.46	1.51 / 1.86
EER/COP		Cooling/Heating 3.92 / 4.09	3.49 / 3.70	3.71 / 3.60
Inrush current		A 5	5	5
Max. current		15	15	15
Sound power level*1	Indoor	Cooling/Heating 60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating 63 / 62	63 / 62	65 / 65
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo) dB(A) 46 / 38 / 36 / 31	46 / 38 / 36 / 31	47 / 41 / 37 / 32
		Heating (P-Hi/Hi/Me/Lo) 46 / 38 / 36 / 31	46 / 38 / 36 / 31	47 / 41 / 37 / 32
	Outdoor	Cooling/Heating 52 / 50	52 / 50	53 / 54
		Cooling (P-Hi/Hi/Me/Lo) m³/min 13 / 10 / 9 / 7	13 / 10 / 9 / 7	20 / 16 / 13 / 10
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo) 13 / 10 / 9 / 7	13 / 10 / 9 / 7	20 / 16 / 13 / 10
		Outdoor	Cooling/Heating 33 / 33	39 / 33
	Exterior dimensions	Indoor	HeightxWidthxDepth mm 210 x 1,070 x 690	
Net weight	Outdoor	28	45	33
	Indoor			
Ref.piping size	Liquid/Gas	ømm 6.35(1/4") / 12.7(1/2")		
Refrigerant line (one way) length		m Max.30		
Vertical height differences	Outdoor is higher/lower	m Max.20 / Max.20		
Outdoor operating temperature range	Cooling	°CDB -15~46*2		
	Heating	°CWB -20~20		
Air filter, Q'ty		Pocket Plastic net x2(Washable)		
Remote control (option)		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-E-E3		

R32		Hyper Inverter			
Set model name		FDE71VNXWVH	FDE100VNXWVH	FDE125VNXWVH	FDE140VNXWVH
Indoor unit		FDE71VH	FDE100VH	FDE125VH	FDE140VH
Outdoor unit		FDC71VNX-W	FDC100VNX-W	FDC125VNX-W	FDC140VNX-W
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)		kW 7.1 ( 3.2 ~ 8.0 )	10.0 ( 3.5 ~ 11.2 )	12.5 ( 3.5 ~ 14.0 )	14.0 ( 3.5 ~ 16.0 )
Nominal heating capacity (Min~Max)		kW 8.0 ( 3.6 ~ 9.0 )	11.2 ( 2.7 ~ 12.5 )	14.0 ( 2.7 ~ 17.0 )	16.0 ( 2.7 ~ 18.0 )
Power consumption		Cooling/Heating kW 1.87 / 1.87	2.33 / 2.52	3.34 / 3.74	4.08 / 4.41
EER/COP		Cooling/Heating 3.80 / 4.28	4.29 / 4.45	3.75 / 3.74	3.43 / 3.63
Inrush current		A 5	5	5	5
Max. current		19.1	25	27	27
Sound power level*1	Indoor	Cooling/Heating 60 / 60	64 / 64	64 / 64	65 / 65
	Outdoor	Cooling/Heating 66 / 66	67 / 67	68 / 70	69 / 71
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo) dB(A) 47 / 41 / 37 / 32	48 / 43 / 38 / 34	48 / 45 / 40 / 35	49 / 45 / 40 / 36
		Heating (P-Hi/Hi/Me/Lo) 47 / 41 / 37 / 32	48 / 43 / 38 / 34	48 / 45 / 40 / 35	49 / 45 / 40 / 36
	Outdoor	Cooling/Heating 51 / 51	53 / 51	53 / 54	54 / 54
		Cooling (P-Hi/Hi/Me/Lo) m³/min 20 / 16 / 13 / 10	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo) 20 / 16 / 13 / 10	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18
		Outdoor	Cooling/Heating 60 / 50	100 / 100	100 / 100
	Exterior dimensions	Indoor	HeightxWidthxDepth mm 210 x 1,320 x 690		250 x 1,620 x 690
Net weight	Outdoor	750 x 880(+88) x 340		1,300 x 970 x 370	
	Indoor	33		43	
Ref.piping size	Liquid/Gas	ømm 9.52(3/8") / 15.88(5/8")			
	Refrigerant line (one way) length	m Max.50		Max.100	
Vertical height differences	Outdoor is higher/lower	m Max.30 / Max.15		Max.50 / Max.15	
Outdoor operating temperature range	Cooling	°CDB -15~50*2			
	Heating	°CWB -20~20			
Air filter, Q'ty		Pocket Plastic net x2(Washable)			
Remote control (option)		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-E-E3			

NOTES:

The data are measured under the following conditions( ISO-T1, -H1).  
 Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
 \*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  
 \*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

## SPECIFICATIONS - FDE -

R32		Hyper Inverter		
Set model name		FDE100VSXWVH	FDE125VSXWVH	FDE140VSXWVH
Indoor unit		FDE100VH	FDE125VH	FDE140VH
Outdoor unit		FDC100VSX-W	FDC125VSX-W	FDC140VSX-W
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)		kW 10.0 (3.5 ~ 11.2)	12.5 (3.5 ~ 14.0)	14.0 (3.5 ~ 16.0)
Nominal heating capacity (Min~Max)		kW 11.2 (2.7 ~ 16.0)	14.0 (2.7 ~ 18.0)	16.0 (2.7 ~ 20.0)
Power consumption		Cooling/Heating kW 2.33 / 2.52	3.34 / 3.74	4.08 / 4.41
EER/COP		Cooling/Heating 4.29 / 4.45	3.75 / 3.74	3.43 / 3.63
Inrush current		5	5	5
Max. current		14	14	14
Sound power level*1	Indoor	Cooling/Heating 64 / 64	64 / 64	65 / 65
	Outdoor	Cooling/Heating 67 / 67	68 / 70	69 / 71
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo) dB(A) 48 / 43 / 38 / 34	48 / 45 / 40 / 35	49 / 45 / 40 / 36
	Outdoor	Heating (P-Hi/Hi/Me/Lo) 48 / 43 / 38 / 34	48 / 45 / 40 / 35	49 / 45 / 40 / 36
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo) m³/min 32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18
	Outdoor	Heating (P-Hi/Hi/Me/Lo) 32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18
Exterior dimensions	Indoor	HeightxWidthxDepth mm 250 x 1,620 x 690		
	Outdoor	1,300 x 970 x 370		
Net weight	Indoor	43		
	Outdoor	99		
Ref.piping size		Liquid/Gas ømm 9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m Max. 100		
Vertical height differences		Outdoor is higher/lower m Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°CDB -15~50*2		
	Heating	°CWB -20~20		
Air filter, Q'ty		Pocket Plastic net x2(Washable)		
Remote control (option)		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-E-E3		

The values are for simultaneous Multi operation.

R32		Hyper Inverter				
Set model name		FDE71VNXWPVH	FDE100VNXWPVH	FDE125VNXWPVH	FDE140VNXWPVH	FDE140VNXWTVH
Indoor unit		FDE40VH x 2	FDE50VH x 2	FDE60VH x 2	FDE71VH x 2	FDE50VH x 3
Outdoor unit		FDC71VNX-W	FDC100VNX-W	FDC125VNX-W	FDC140VNX-W	FDC140VNX-W
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)		kW 7.1 (3.2 ~ 8.0)	10.0 (3.5 ~ 11.2)	12.5 (3.5 ~ 14.0)	14.0 (3.5 ~ 16.0)	14.0 (3.5 ~ 16.0)
Nominal heating capacity (Min~Max)		kW 8.0 (3.6 ~ 9.0)	11.2 (2.7 ~ 12.5)	14.0 (2.7 ~ 17.0)	16.0 (2.7 ~ 18.0)	16.0 (2.7 ~ 18.0)
Power consumption		Cooling/Heating kW 1.76 / 2.10	2.48 / 2.88	3.49 / 3.27	4.16 / 3.97	3.72 / 4.11
EER/COP		Cooling/Heating 4.03 / 3.81	4.04 / 3.89	3.58 / 4.29	3.36 / 4.03	3.76 / 3.89
Inrush current		5	5	5	5	5
Max. current		19.1	25	27	27	27
Sound power level*1	Indoor*3	Cooling/Heating 60 / 60	60 / 60	60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating 66 / 66	67 / 67	68 / 70	69 / 71	69 / 71
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo) dB(A) 46 / 38 / 36 / 31	46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32	46 / 38 / 36 / 31
	Outdoor	Heating (P-Hi/Hi/Me/Lo) 46 / 38 / 36 / 31	46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32	46 / 38 / 36 / 31
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo) m³/min 13 / 10 / 9 / 7	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10	13 / 10 / 9 / 7
	Outdoor	Heating (P-Hi/Hi/Me/Lo) 13 / 10 / 9 / 7	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10	13 / 10 / 9 / 7
Exterior dimensions	Indoor	HeightxWidthxDepth mm 210 x 1,070 x 690	210 x 1,320 x 690		210 x 1,070 x 690	
	Outdoor	750 x 880(+88) x 340	1,300 x 970 x 370			
Net weight	Indoor	28	33		28	
	Outdoor	60	97			
Ref.piping size		Liquid/Gas ømm 9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length		m Max. 50	Max. 100	Max. 100	Max. 85	
Vertical height differences		Outdoor is higher/lower m Max.30 / Max.15	Max.50 / Max.15			
Outdoor operating temperature range	Cooling	°CDB -15~50*2				
	Heating	°CWB -20~20				
Air filter, Q'ty		Pocket plastic net x 2(Washable)				
Remote control (option)		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-E-E3				

### NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

R32			Hyper Inverter			
Set model name			FDE100VSXWPVH	FDE125VSXWPVH	FDE140VSXWPVH	FDE140VSXWTVH
			Twin		Triple	
Indoor unit			FDE50VH x 2	FDE60VH x 2	FDE71VH x 2	FDE50VH x 3
Outdoor unit			FDC100VSX-W	FDC125VSX-W	FDC140VSX-W	FDC140VSX-W
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)	kW		10.0 ( 3.5 ~ 11.2 )	12.5 ( 3.5 ~ 14.0 )	14.0 ( 3.5 ~ 16.0 )	14.0 ( 3.5 ~ 16.0 )
Nominal heating capacity (Min~Max)	kW		11.2 ( 2.7 ~ 16.0 )	14.0 ( 2.7 ~ 18.0 )	16.0 ( 2.7 ~ 20.0 )	16.0 ( 2.7 ~ 20.0 )
Power consumption	Cooling/Heating	kW	2.48 / 2.88	3.49 / 3.27	4.16 / 3.97	3.72 / 4.11
EER/COP	Cooling/Heating		4.04 / 3.89	3.58 / 4.29	3.36 / 4.03	3.76 / 3.89
Inrush current		A	5	5	5	5
Max. current			14	14	14	14
Sound power level*1	Indoor*3	Cooling/Heating	60 / 60	60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating	67 / 67	68 / 70	69 / 71	69 / 71
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32	46 / 38 / 36 / 31
	Outdoor	Cooling/Heating	53 / 51	53 / 54	54 / 54	54 / 54
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10	13 / 10 / 9 / 7
	Outdoor	Cooling/Heating	100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	210 x 1,070 x 690	210 x 1,320 x 690		210 x 1,070 x 690
	Outdoor			1,300 x 970 x 370		
Net weight	Indoor		28	33		28
	Outdoor			99		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length		m	Max.100		Max.85	
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15			
Outdoor operating temperature range	Cooling	°CDB	-15~50*2			
	Heating	°CWB	-20~20			
Air filter, Q'ty			Pocket plastic net x 2(Washable)			
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-E-E3			

R410A			Hyper Inverter			
Set model name			FDE40ZSXVH	FDE50ZSXVH	FDE60ZSXVH	
Indoor unit			FDE40VH	FDE50VH	FDE60VH	
Outdoor unit			SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)	kW		4.0 ( 1.1 ~ 4.7 )	5.0 ( 1.1 ~ 5.6 )	5.6 ( 1.1 ~ 6.3 )	
Nominal heating capacity (Min~Max)	kW		4.5 ( 0.6 ~ 5.4 )	5.4 ( 0.6 ~ 6.3 )	6.7 ( 0.6 ~ 7.1 )	
Power consumption	Cooling/Heating	kW	1.02 / 1.10	1.52 / 1.46	1.75 / 1.86	
EER/COP	Cooling/Heating		3.92 / 4.09	3.29 / 3.70	3.20 / 3.60	
Inrush current		A	5	5	5	
Max. current			12	15	15	
Sound power level*1	Indoor	Cooling/Heating	60 / 60	60 / 60	60 / 60	
	Outdoor	Cooling/Heating	63 / 63	63 / 63	65 / 64	
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	46 / 38 / 36 / 31	46 / 38 / 36 / 31	47 / 41 / 37 / 32	
	Outdoor	Cooling/Heating	50 / 49	50 / 49	52 / 52	
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7	13 / 10 / 9 / 7	20 / 16 / 13 / 10	
	Outdoor	Cooling/Heating	36 / 33	40 / 33	41.5 / 39	
Exterior dimensions	Indoor	HeightxWidthxDepth	210 x 1,070 x 690			210 x 1,320 x 690
	Outdoor		640 x 800(+71) x 290			
Net weight	Indoor		28		33	
	Outdoor		45			
Ref.piping size	Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")			
Refrigerant line (one way) length		m	Max.30			
Vertical height differences	Outdoor is higher/lower	m	Max.20 / Max.20			
Outdoor operating temperature range	Cooling	°CDB	-15~46*2			
	Heating	°CWB	-20~24			
Air filter, Q'ty			Pocket Plastic net x2(Washable)			
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-E-E3			

## SPECIFICATIONS - FDE -

R410A		Hyper Inverter			
Set model name		FDE71VNXVH	FDE100VNXVH	FDE125VNXVH	FDE140VNXVH
Indoor unit		FDE71VH	FDE100VH	FDE125VH	FDE140VH
Outdoor unit		FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)		kW 7.1 (3.2 ~ 8.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)		kW 8.0 (3.6 ~ 9.0)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 17.0)	16.0 (4.0 ~ 18.0)
Power consumption		Cooling/Heating kW 2.11 / 2.11	2.55 / 2.68	3.50 / 3.77	4.40 / 4.69
EER/COP		Cooling/Heating 3.36 / 3.79	3.92 / 4.18	3.57 / 3.71	3.18 / 3.41
Inrush current		A 5	5	5	5
Max. current		A 17	24	26	26
Sound power level*1	Indoor	Cooling/Heating 60 / 60	64 / 64	64 / 64	65 / 65
	Outdoor	Cooling/Heating 66 / 66	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo) dB(A) 47 / 41 / 37 / 32	48 / 43 / 38 / 34	48 / 45 / 40 / 35	49 / 45 / 40 / 36
		Heating (P-Hi/Hi/Me/Lo) 47 / 41 / 37 / 32	48 / 43 / 38 / 34	48 / 45 / 40 / 35	49 / 45 / 40 / 36
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo) m³/min 20 / 16 / 13 / 10	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18
		Heating (P-Hi/Hi/Me/Lo) 20 / 16 / 13 / 10	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18
Outdoor		Cooling/Heating 60 / 50	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth mm 210 x 1,320 x 690	250 x 1,620 x 690		
	Outdoor	750 x 880(+88) x 340	1,300 x 970 x 370		
Net weight	Indoor	kg 33	43		
	Outdoor	60	105		
Ref.piping size		Liquid/Gas ømm 9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length		m Max.50	Max.100		
Vertical height differences		Outdoor is higher/lower m Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°CDB -15~43*2			
	Heating	°CWB -20~20			
Air filter, Q'ty		Pocket Plastic net x2(Washable)			
Remote control (option)		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-E-E3			

R410A		Hyper Inverter			
Set model name		FDE100VSXVH	FDE125VSXVH	FDE140VSXVH	
Indoor unit		FDE100VH	FDE125VH	FDE140VH	
Outdoor unit		FDC100VSX	FDC125VSX	FDC140VSX	
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)		kW 10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	
Nominal heating capacity (Min~Max)		kW 11.2 (4.0 ~ 16.0)	14.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)	
Power consumption		Cooling/Heating kW 2.55 / 2.68	3.50 / 3.77	4.40 / 4.69	
EER/COP		Cooling/Heating 3.92 / 4.18	3.57 / 3.71	3.18 / 3.41	
Inrush current		A 5	5	5	
Max. current		A 15	15	15	
Sound power level*1	Indoor	Cooling/Heating 64 / 64	64 / 64	65 / 65	
	Outdoor	Cooling/Heating 70 / 70	70 / 70	72 / 72	
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo) dB(A) 48 / 43 / 38 / 34	48 / 45 / 40 / 35	49 / 45 / 40 / 36	
		Heating (P-Hi/Hi/Me/Lo) 48 / 43 / 38 / 34	48 / 45 / 40 / 35	49 / 45 / 40 / 36	
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo) m³/min 32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18	
		Heating (P-Hi/Hi/Me/Lo) 32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18	
Outdoor		Cooling/Heating 100 / 100	100 / 100	100 / 100	
Exterior dimensions	Indoor	HeightxWidthxDepth mm 250 x 1,620 x 690			
	Outdoor	1,300 x 970 x 370			
Net weight	Indoor	kg 43	105		
	Outdoor	105			
Ref.piping size		Liquid/Gas ømm 9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length		m Max.100			
Vertical height differences		Outdoor is higher/lower m Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°CDB -15~43*2			
	Heating	°CWB -20~20			
Air filter, Q'ty		Pocket Plastic net x2(Washable)			
Remote control (option)		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-E-E3			

### NOTES:

The data are measured under the following conditions(ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)



The values are for simultaneous Multi operation.

R410A			Hyper Inverter				
Set model name			FDE71VNXPVH	FDE100VNXPVH	FDE125VNXPVH	FDE140VNXPVH	FDE140VNXTVH
			Twin				Triple
Indoor unit			FDE40VH x 2	FDE50VH x 2	FDE60VH x 2	FDE71VH x 2	FDE50VH x 3
Outdoor unit			FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	FDC140VNX
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)			kW 7.1 (3.2 ~ 8.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)			kW 8.0 (3.6 ~ 9.0)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 17.0)	16.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 18.0)
Power consumption			Cooling/Heating kW 2.05 / 2.35	3.00 / 3.39	3.97 / 3.70	4.67 / 4.58	4.66 / 4.53
EER/COP			Cooling/Heating 3.46 / 3.40	3.33 / 3.30	3.15 / 3.78	3.00 / 3.49	3.00 / 3.53
Inrush current			A 5	5	5	5	5
Max. current			17	24	26	26	26
Sound power level*1	Indoor <sup>3</sup>	Cooling/Heating	60 / 60	60 / 60	60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating	66 / 66	70 / 70	70 / 70	72 / 72	72 / 72
Sound pressure level*1	Indoor <sup>3</sup>	Cooling (P-Hi/Hi/Me/Lo)	46 / 38 / 36 / 31	46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32	46 / 38 / 36 / 31
		Heating (P-Hi/Hi/Me/Lo)	46 / 38 / 36 / 31	46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32	46 / 38 / 36 / 31
	Outdoor	Cooling/Heating	51 / 48	48 / 50	48 / 50	49 / 52	49 / 52
Air flow	Indoor <sup>3</sup>	Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10	13 / 10 / 9 / 7
		Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10	13 / 10 / 9 / 7
	Outdoor	Cooling/Heating	60 / 50	100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	210 x 1,070 x 690		210 x 1,320 x 690		210 x 1,070 x 690
	Outdoor		750 x 880(+88) x 340		1,300 x 970 x 370		
Net weight	Indoor		28		33		28
	Outdoor		60		105		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length		m	Max. 50		Max. 100		
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15				
Outdoor operating temperature range	Cooling	°CDB	-15~43*2				
	Heating	°CWB	-20~20				
Air filter, Q'ty			Pocket plastic net x 2(Washable)				
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-E-E3				

The values are for simultaneous Multi operation.

R410A			Hyper Inverter			
Set model name			FDE100VXSPVH	FDE125VXSPVH	FDE140VXSPVH	FDE140VXSXTVH
			Twin			Triple
Indoor unit			FDE50VH x 2	FDE60VH x 2	FDE71VH x 2	FDE50VH x 3
Outdoor unit			FDC100VSX	FDC125VSX	FDC140VSX	FDC140VSX
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)			kW 10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)			kW 11.2 (4.0 ~ 16.0)	14.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)	16.0 (4.0 ~ 20.0)
Power consumption			Cooling/Heating kW 3.00 / 3.39	3.97 / 3.70	4.67 / 4.58	4.66 / 4.53
EER/COP			Cooling/Heating 3.33 / 3.30	3.15 / 3.78	3.00 / 3.49	3.00 / 3.53
Inrush current			A 5	5	5	5
Max. current			15	15	15	15
Sound power level*1	Indoor <sup>3</sup>	Cooling/Heating	60 / 60	60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating	70 / 70	70 / 70	72 / 72	72 / 72
Sound pressure level*1	Indoor <sup>3</sup>	Cooling (P-Hi/Hi/Me/Lo)	46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32	46 / 38 / 36 / 31
		Heating (P-Hi/Hi/Me/Lo)	46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32	46 / 38 / 36 / 31
	Outdoor	Cooling/Heating	48 / 50	48 / 50	49 / 52	49 / 52
Air flow	Indoor <sup>3</sup>	Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10	13 / 10 / 9 / 7
		Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10	13 / 10 / 9 / 7
	Outdoor	Cooling/Heating	100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	210 x 1,070 x 690		210 x 1,320 x 690	
	Outdoor				1,300 x 970 x 370	
Net weight	Indoor		28		33	
	Outdoor		60		105	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length		m	Max.100			
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°CDB	-15~43*2			
	Heating	°CWB	-20~20			
Air filter, Q'ty			Pocket plastic net x 2(Washable)			
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-E-E3			

## SPECIFICATIONS - FDE -

R32		Micro Inverter		
Set model name		FDE100VNAVWH	FDE125VNAVWH	FDE140VNAVWH
Indoor unit		FDE100VH	FDE125VH	FDE140VH
Outdoor unit		FDC100VNA-W	FDC125VNA-W	FDC140VNA-W
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min-Max)	kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min-Max)	kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption	Cooling/Heating	2.85 / 2.54	4.45 / 3.74	5.05 / 4.18
EER/COP	Cooling/Heating	3.51 / 4.41	2.81 / 3.74	2.69 / 3.71
Inrush current		5	5	5
Max. current		24	24	24
Sound power level*1	Indoor	Cooling/Heating	64 / 64	65 / 65
	Outdoor	Cooling/Heating	69 / 70	72 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	48 / 43 / 38 / 34	49 / 45 / 40 / 36
		Heating (P-Hi/Hi/Me/Lo)	48 / 43 / 38 / 34	49 / 45 / 40 / 36
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	32 / 26 / 21 / 16.5	34 / 29 / 23 / 18
		Heating (P-Hi/Hi/Me/Lo)	32 / 26 / 21 / 16.5	34 / 29 / 23 / 18
	Outdoor	Cooling/Heating	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	250 x 1,620 x 690	
	Outdoor		845 x 970 x 370	
Net weight	Indoor		43	
	Outdoor		77	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length		m	Max.50	
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15	
Outdoor operating temperature range	Cooling	°CDB	-15~50*2	
	Heating	°CWB	-20~20	
Air filter, Q'ty			Pocket Plastic net x2(Washable)	
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-E-E3	

R32		Micro Inverter		
Set model name		FDE100VSAVWH	FDE125VSAVWH	FDE140VSAVWH
Indoor unit		FDE100VH	FDE125VH	FDE140VH
Outdoor unit		FDC100VSA-W	FDC125VSA-W	FDC140VSA-W
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min-Max)	kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min-Max)	kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption	Cooling/Heating	2.85 / 2.54	4.45 / 3.74	5.05 / 4.18
EER/COP	Cooling/Heating	3.51 / 4.41	2.81 / 3.74	2.69 / 3.71
Inrush current		5	5	5
Max. current		15	15	15
Sound power level*1	Indoor	Cooling/Heating	64 / 64	65 / 65
	Outdoor	Cooling/Heating	69 / 70	72 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	48 / 43 / 38 / 34	49 / 45 / 40 / 36
		Heating (P-Hi/Hi/Me/Lo)	48 / 43 / 38 / 34	49 / 45 / 40 / 36
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	32 / 26 / 21 / 16.5	34 / 29 / 23 / 18
		Heating (P-Hi/Hi/Me/Lo)	32 / 26 / 21 / 16.5	34 / 29 / 23 / 18
	Outdoor	Cooling/Heating	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	250 x 1,620 x 690	
	Outdoor		845 x 970 x 370	
Net weight	Indoor		43	
	Outdoor		78	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length		m	Max.50	
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15	
Outdoor operating temperature range	Cooling	°CDB	-15~50*2	
	Heating	°CWB	-20~20	
Air filter, Q'ty			Pocket Plastic net x2(Washable)	
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-E-E3	

### NOTES:

The data are measured under the following conditions(ISO-T1, -H1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

R32			Micro Inverter			
Set model name			FDE100VNAVPVH	FDE125VNAVPVH	FDE140VNAVPVH	FDE140VNAWTVH
			Twin		Triple	
Indoor unit			FDE50VH x 2	FDE60VH x 2	FDE71VH x 2	FDE50VH x 3
Outdoor unit			FDC100VNA-W	FDC125VNA-W	FDC140VNA-W	FDC140VNA-W
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)	kW		10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)	13.6 (5.0 ~ 14.5)
Nominal heating capacity (Min~Max)	kW		11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)	15.5 (4.0 ~ 16.5)
Power consumption	Cooling/Heating	kW	3.12 / 2.99	4.16 / 3.54	4.74 / 4.21	4.74 / 4.21
EER/COP	Cooling/Heating		3.21 / 3.75	3.00 / 3.95	2.87 / 3.68	2.87 / 3.68
Inrush current		A	5	5	5	5
Max. current			24	24	24	24
Sound power level*1	Indoor <sup>3</sup>	Cooling/Heating	60 / 60	60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating	69 / 70	71 / 71	72 / 73	72 / 73
Sound pressure level*1	Indoor <sup>3</sup>	Cooling (P-Hi/Hi/Me/Lo)	46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32	46 / 38 / 36 / 31
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32	46 / 38 / 36 / 31
Air flow	Indoor <sup>3</sup>	Cooling/Heating	54 / 55	54 / 56	56 / 58	56 / 58
	Outdoor	Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10	13 / 10 / 9 / 7
Exterior dimensions	Indoor	HeightsxWidthxDepth	210 x 1,070 x 690	210 x 1,320 x 690		210 x 1,070 x 690
	Outdoor			845 x 970 x 370		
Net weight	Indoor		28	33		28
	Outdoor			77		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length		m	Max. 50			
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15			
Outdoor operating temperature range	Cooling	°CDB	-15~50*2			
	Heating	°CWB	-20~20			
Air filter, Q'ty			Pocket plastic net x 2(Washable)			
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-E-E3			

The values are for simultaneous Multi operation.

R32			Micro Inverter			
Set model name			FDE100VSAVPVH	FDE125VSAVPVH	FDE140VSAVPVH	FDE140VSAWTVH
			Twin		Triple	
Indoor unit			FDE50VH x 2	FDE60VH x 2	FDE71VH x 2	FDE50VH x 3
Outdoor unit			FDC100VSA-W	FDC125VSA-W	FDC140VSA-W	FDC140VSA-W
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)	kW		10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)	13.6 (5.0 ~ 14.5)
Nominal heating capacity (Min~Max)	kW		11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)	15.5 (4.0 ~ 16.5)
Power consumption	Cooling/Heating	kW	3.12 / 2.99	4.16 / 3.54	4.74 / 4.21	4.74 / 4.21
EER/COP	Cooling/Heating		3.21 / 3.75	3.00 / 3.95	2.87 / 3.68	2.87 / 3.68
Inrush current		A	5	5	5	5
Max. current			15	15	15	15
Sound power level*1	Indoor <sup>3</sup>	Cooling/Heating	60 / 60	60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating	69 / 70	71 / 71	72 / 73	72 / 73
Sound pressure level*1	Indoor <sup>3</sup>	Cooling (P-Hi/Hi/Me/Lo)	46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32	46 / 38 / 36 / 31
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32	46 / 38 / 36 / 31
Air flow	Indoor <sup>3</sup>	Cooling/Heating	54 / 55	54 / 56	56 / 58	56 / 58
	Outdoor	Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10	13 / 10 / 9 / 7
Exterior dimensions	Indoor	HeightsxWidthxDepth	210 x 1,070 x 690	210 x 1,320 x 690		210 x 1,070 x 690
	Outdoor			845 x 970 x 370		
Net weight	Indoor		28	33		28
	Outdoor			78		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length		m	Max.50			
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15			
Outdoor operating temperature range	Cooling	°CDB	-15~50*2			
	Heating	°CWB	-20~20			
Air filter, Q'ty			Pocket plastic net x 2(Washable)			
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-E-E3			

## SPECIFICATIONS - FDE -

The values are for simultaneous Multi operation.

R32		Micro Inverter			
		FDE200VSAWPVH	FDE250VSAWPVH	FDE280VSAWPVH	FDE200VSAWTVH
Set model name		Twin		Triple	
Indoor unit		FDE100VH x 2	FDE125VH x 2	FDE140VH x 2	FDE71VH x 3
Outdoor unit		FDC200VSA-W	FDC250VSA-W	FDC280VSA-W	FDC200VSA-W
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)		kW 20.0 ( 6.7 ~ 22.4 )	25.0 ( 6.7 ~ 28.0 )	27.0 ( 7.1 ~ 31.5 )	20.0 ( 7.5 ~ 22.4 )
Nominal heating capacity (Min~Max)		kW 22.4 ( 6.6 ~ 25.0 )	28.0 ( 5.2 ~ 31.5 )	30.0 ( 5.8 ~ 33.5 )	22.4 ( 6.6 ~ 25.0 )
Power consumption		Cooling/Heating kW 6.29 / 5.66	8.20 / 7.93	9.31 / 8.98	6.29 / 5.66
EER/COP		Cooling/Heating 3.18 / 3.96	3.05 / 3.53	2.90 / 3.34	3.18 / 3.96
Inrush current		A 5	5	5	5
Max. current		19	20	20	19
Sound power level*1	Indoor*3	Cooling/Heating 64 / 64	64 / 64	65 / 65	60 / 60
	Outdoor	Cooling/Heating 72 / 74	73 / 75	75 / 77	72 / 74
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo) dB(A) 48 / 43 / 38 / 34	48 / 45 / 40 / 35	49 / 45 / 40 / 36	47 / 41 / 37 / 32
	Outdoor	Heating (P-Hi/Hi/Me/Lo) 48 / 43 / 38 / 34	48 / 45 / 40 / 35	49 / 45 / 40 / 36	47 / 41 / 37 / 32
Air flow	Indoor*3	Cooling/Heating m³/min 58 / 59	58 / 62	61 / 63	58 / 59
	Outdoor	Cooling (P-Hi/Hi/Me/Lo) 32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18	20 / 16 / 13 / 10
Exterior dimensions	Indoor	Heating (P-Hi/Hi/Me/Lo) 32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18	20 / 16 / 13 / 10
	Outdoor	Cooling/Heating 148 / 134	148 / 153	136 / 140	148 / 134
Net weight		250 x 1,620 x 690		210 x 1,320 x 690	
Ref.piping size		1,505 x 970 x 370		43	
Refrigerant line (one way) length		kg 144		145	
Vertical height differences		Max.70		Max.60	
Outdoor operating temperature range		Max.50*4 / Max.15		Max.70	
Air filter, Q'ty		-15~50*2		-20~20	
Remote control (option)		-20~20		Pocket plastic net x 2(Washable)	
		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-E-E3			

The values are for simultaneous Multi operation.

R32		Micro Inverter			
		FDE200VSAWDVH	FDE250VSAWDVH	FDE280VSAWDVH	
Set model name		Double Twin			
Indoor unit		FDE50VH x 4	FDE60VH x 4	FDE71VH x 4	
Outdoor unit		FDC200VSA-W	FDC250VSA-W	FDC280VSA-W	
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)		kW 20.0 ( 7.8 ~ 22.4 )	25.0 ( 7.8 ~ 28.0 )	27.0 ( 7.5 ~ 31.5 )	
Nominal heating capacity (Min~Max)		kW 22.4 ( 6.6 ~ 25.0 )	28.0 ( 5.2 ~ 31.5 )	30.0 ( 5.8 ~ 33.5 )	
Power consumption		Cooling/Heating kW 6.29 / 5.66	8.04 / 7.32	9.15 / 8.98	
EER/COP		Cooling/Heating 3.18 / 3.96	3.11 / 3.83	2.95 / 3.34	
Inrush current		A 5	5	5	
Max. current		19	20	20	
Sound power level*1	Indoor*3	Cooling/Heating 60 / 60	60 / 60	60 / 60	
	Outdoor	Cooling/Heating 72 / 74	73 / 75	75 / 77	
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo) dB(A) 46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32	
	Outdoor	Heating (P-Hi/Hi/Me/Lo) 46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32	
Air flow	Indoor*3	Cooling/Heating 58 / 59	58 / 62	61 / 63	
	Outdoor	Cooling (P-Hi/Hi/Me/Lo) m³/min 13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10	
Exterior dimensions	Indoor	Heating (P-Hi/Hi/Me/Lo) 13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10	
	Outdoor	Cooling/Heating 148 / 134	148 / 153	136 / 140	
Net weight		210 x 1,070 x 690		210 x 1,320 x 690	
Ref.piping size		1,505 x 970 x 370		28	
Refrigerant line (one way) length		kg 144		145	
Vertical height differences		Max.70		Max.60	
Outdoor operating temperature range		Max.50*4 / Max.15		Max.70	
Air filter, Q'ty		-15~50*2		-20~20	
Remote control (option)		-20~20		Pocket plastic net x 2(Washable)	
		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-E-E3			

### NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

\*4 : In case of following conditions:Max.50m(Outdoor unit is higher & Outdoor temperature ≤ 43°C), Max.30m(Outdoor unit is higher & Outdoor temperature > 43°C)

R410A		Micro Inverter					
Set model name		FDE100VNAVH	FDE125VNAVH	FDE140VNAVH	FDE100VSAVH	FDE125VSAVH	FDE140VSAVH
Indoor unit		FDE100VH	FDE125VH	FDE140VH	FDE100VH	FDE125VH	FDE140VH
Outdoor unit		FDC100VNA	FDC125VNA	FDC140VNA	FDC100VSA	FDC125VSA	FDC140VSA
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)	kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)
Nominal heating capacity (Min~Max)	kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)
Power consumption	Cooling/Heating	2.85 / 2.70	4.45 / 3.74	5.21 / 4.42	2.85 / 2.70	4.45 / 3.74	5.21 / 4.42
EER/COP	Cooling/Heating	3.51 / 4.15	2.81 / 3.74	2.61 / 3.51	3.51 / 4.15	2.81 / 3.74	2.61 / 3.51
Inrush current		5	5	5	5	5	5
Max. current		24	24	24	15	15	15
Sound power level*1	Indoor	Cooling/Heating	64 / 64	64 / 64	65 / 65	64 / 64	64 / 64
	Outdoor	Cooling/Heating	70 / 70	71 / 71	73 / 73	70 / 70	71 / 71
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	48 / 43 / 38 / 34	48 / 45 / 40 / 35	49 / 45 / 40 / 36	48 / 43 / 38 / 34	48 / 45 / 40 / 35
		Heating (P-Hi/Hi/Me/Lo)	48 / 43 / 38 / 34	48 / 45 / 40 / 35	49 / 45 / 40 / 36	48 / 43 / 38 / 34	48 / 45 / 40 / 35
	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59	54 / 56	55 / 57
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17
		Heating (P-Hi/Hi/Me/Lo)	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	250 x 1,620 x 690				
	Outdoor		845 x 970 x 370				
Net weight	Indoor		43				
	Outdoor		80		82		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length		m	Max.50				
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15				
Outdoor operating temperature range	Cooling	°CDB	-15~50*2				
	Heating	°CWB	-20~20				
Air filter, Q'ty			Pocket Plastic net x2(Washable)				
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-E-E3				

The values are for simultaneous Multi operation.

R410A		Micro Inverter			
Set model name		FDE100VNAPVH	FDE125VNAPVH	FDE140VNAPVH	FDE140VNATVH
Indoor unit		FDE50VH x 2	FDE60VH x 2	FDE71VH x 2	FDE50VH x 3
Outdoor unit		FDC100VNA	FDC125VNA	FDC140VNA	FDC140VNA
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)	kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)	13.6 (5.0 ~ 14.5)
Nominal heating capacity (Min~Max)	kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)	15.5 (4.0 ~ 16.5)
Power consumption	Cooling/Heating	3.12 / 2.99	4.16 / 3.54	4.74 / 4.21	4.74 / 4.21
EER/COP	Cooling/Heating	3.21 / 3.75	3.00 / 3.95	2.87 / 3.68	2.87 / 3.68
Inrush current		5	5	5	5
Max. current		24	24	24	24
Sound power level*1	Indoor*3	Cooling/Heating	60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating	70 / 70	71 / 71	73 / 73
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32
		Heating (P-Hi/Hi/Me/Lo)	46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32
	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10
		Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	210 x 1,070 x 690	210 x 1,320 x 690	
	Outdoor		845 x 970 x 370		
Net weight	Indoor		28	33	
	Outdoor		80		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m	Max. 50		
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50*2		
	Heating	°CWB	-20~20		
Air filter, Q'ty			Pocket plastic net x 2(Washable)		
Remote control (option)			wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-E-E3		

## SPECIFICATIONS - FDE -

The values are for simultaneous Multi operation.

R410A		Micro Inverter			
Set model name		FDE100VSAPVH	FDE125VSAPVH	FDE140VSAPVH	FDE140VSATVH
		Twin		Triple	
Indoor unit		FDE50VH x 2	FDE60VH x 2	FDE71VH x 2	FDE50VH x 3
Outdoor unit		FDC100VSA	FDC125VSA	FDC140VSA	FDC140VSA
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)	kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)	kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )	15.5 ( 4.0 ~ 16.5 )
Power consumption	Cooling/Heating	3.12 / 2.99	4.16 / 3.54	4.74 / 4.21	4.74 / 4.21
EER/COP	Cooling/Heating	3.21 / 3.75	3.00 / 3.95	2.87 / 3.68	2.87 / 3.68
Inrush current		5	5	5	5
Max. current	A	15	15	15	15
Sound power level*1	Indoor <sup>3</sup> Cooling/Heating	60 / 60	60 / 60	60 / 60	60 / 60
	Outdoor Cooling/Heating	70 / 70	71 / 71	73 / 73	73 / 73
Sound pressure level*1	Indoor <sup>3</sup> Cooling (P-Hi/Hi/Me/Lo)	46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32	46 / 38 / 36 / 31
	Heating (P-Hi/Hi/Me/Lo)	46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32	46 / 38 / 36 / 31
	Outdoor Cooling/Heating	54 / 56	55 / 57	57 / 59	57 / 59
Air flow	Indoor <sup>3</sup> Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10	13 / 10 / 9 / 7
	Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10	13 / 10 / 9 / 7
	Outdoor Cooling/Heating	75 / 73	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor HeightxWidthxDepth	210 x 1,070 x 690	210 x 1,320 x 690		210 x 1,070 x 690
	Outdoor		845 x 970 x 370		
Net weight	Indoor	28	33		28
	Outdoor		82		
Ref.piping size	Liquid/Gas	ømm 9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length		m Max.50			
Vertical height differences	Outdoor is higher/lower	m Max.50 / Max.15			
Outdoor operating temperature range	Cooling	°CDB -15~50*2			
	Heating	°CWB -20~20			
Air filter, Q'ty		Pocket plastic net x 2(Washable)			
Remote control (option)		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-E-E3			

The values are for simultaneous Multi operation.

R410A		Micro Inverter				
Set model name		FDE200VSAPVH	FDE250VSAPVH	FDE200VSATVH	FDE200VSADVH	FDE250VSADVH
		Twin		Triple	Double Twin	
Indoor unit		FDE100VH x 2	FDE125VH x 2	FDE71VH x 3	FDE50VH x 4	FDE60VH x 4
Outdoor unit		FDC200VSA	FDC250VSA	FDC200VSA	FDC200VSA	FDC250VSA
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)	kW	19.0 ( 5.2 ~ 22.4 )	24.0 ( 6.9 ~ 28.0 )	19.0 ( 5.2 ~ 22.4 )	19.0 ( 5.2 ~ 22.4 )	24.0 ( 6.9 ~ 28.0 )
Nominal heating capacity (Min~Max)	kW	22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )	22.4 ( 3.3 ~ 25.0 )	22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )
Power consumption	Cooling/Heating	6.34 / 6.10	8.52 / 7.54	6.33 / 5.94	6.90 / 7.10	8.00 / 7.02
EER/COP	Cooling/Heating	3.00 / 3.67	2.82 / 3.58	3.00 / 3.77	2.75 / 3.15	3.00 / 3.85
Inrush current		5	5	5	5	5
Max. current	A	20	21	20	20	21
Sound power level*1	Indoor <sup>3</sup> Cooling/Heating	64 / 64	64 / 64	60 / 60	60 / 60	60 / 60
	Outdoor Cooling/Heating	72 / 74	73 / 75	72 / 74	72 / 74	73 / 75
Sound pressure level*1	Indoor <sup>3</sup> Cooling (P-Hi/Hi/Me/Lo)	48 / 43 / 38 / 34	48 / 45 / 40 / 35	47 / 41 / 37 / 32	46 / 38 / 36 / 31	47 / 41 / 37 / 32
	Heating (P-Hi/Hi/Me/Lo)	48 / 43 / 38 / 34	48 / 45 / 40 / 35	47 / 41 / 37 / 32	46 / 38 / 36 / 31	47 / 41 / 37 / 32
	Outdoor Cooling/Heating	58 / 59	59 / 62	58 / 59	58 / 59	59 / 62
Air flow	Indoor <sup>3</sup> Cooling (P-Hi/Hi/Me/Lo)	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	20 / 16 / 13 / 10	13 / 10 / 9 / 7	20 / 16 / 13 / 10
	Heating (P-Hi/Hi/Me/Lo)	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	20 / 16 / 13 / 10	13 / 10 / 9 / 7	20 / 16 / 13 / 10
	Outdoor Cooling/Heating	135 / 135	143 / 151	135 / 135	135 / 135	143 / 151
Exterior dimensions	Indoor HeightxWidthxDepth	250 x 1,620 x 690		210 x 1,320 x 690	210 x 1,070 x 690	210 x 1,320 x 690
	Outdoor	1,300 x 970 x 370	1,505 x 970 x 370	1,300 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370
Net weight	Indoor	43		33	28	33
	Outdoor	115	143	115	115	143
Ref.piping size	Liquid/Gas	ømm 9.52(3/8") / 22.22(7/8") 12.7(1/2") / 22.22(7/8") 9.52(3/8") / 22.22(7/8") 9.52(3/8") / 22.22(7/8") 12.7(1/2") / 22.22(7/8")				
Refrigerant line (one way) length		m Max.70				
Vertical height differences	Outdoor is higher/lower	m Max.30 / Max.15				
Outdoor operating temperature range	Cooling	°CDB -15~50*2				
	Heating	°CWB -15~20				
Air filter, Q'ty		Pocket plastic net x 2(Washable)				
Remote control (option)		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-E-E3				

### NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

R32		Standard Inverter			
Set model name		FDE71VNPVWH	FDE90VNPVWH	FDE100VNPVWH	FDE125VNPVWH
Indoor unit		FDE71VH	FDE100VH	FDE100VH	FDE125VH
Outdoor unit		FDC71VNP-W	FDC90VNP-W	FDC100VNP-W	FDC125VNP-W
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)		kW 7.1 ( 1.5 ~ 7.3 )	9.0 ( 2.1 ~ 9.5 )	10.0 ( 2.1 ~ 10.2 )	12.1 ( 5.0 ~ 12.1 )
Nominal heating capacity (Min~Max)		kW 7.1 ( 1.1 ~ 7.3 )	9.0 ( 1.7 ~ 9.5 )	10.0 ( 1.7 ~ 10.4 )	12.1 ( 4.0 ~ 13.3 )
Power consumption		Cooling/Heating kW 2.41 / 1.96	2.38 / 1.99	3.00 / 2.36	3.88 / 3.30
EER/COP		Cooling/Heating 2.95 / 3.62	3.78 / 4.52	3.33 / 4.24	3.12 / 3.67
Inrush current		A 5	5	5	5
Max. current		15.8	19	19	18
Sound power level*1	Indoor	Cooling/Heating 60 / 60	64 / 64	64 / 64	64 / 64
	Outdoor	Cooling/Heating 67 / 67	67 / 66	68 / 67	73 / 72
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo) dB(A) 47 / 41 / 37 / 32	48 / 43 / 38 / 34	48 / 43 / 38 / 34	48 / 45 / 40 / 35
	Outdoor	Heating (P-Hi/Hi/Me/Lo) 47 / 41 / 37 / 32	48 / 43 / 38 / 34	48 / 43 / 38 / 34	48 / 45 / 40 / 35
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo) m³/min 20 / 16 / 13 / 10	32 / 26 / 21 / 16.5	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17
	Outdoor	Heating (P-Hi/Hi/Me/Lo) 20 / 16 / 13 / 10	32 / 26 / 21 / 16.5	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17
Exterior dimensions	Indoor	HeightxWidthxDepth mm 210 x 1,320 x 690	250 x 1,620 x 690		
	Outdoor	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370	
Net weight	Indoor	kg 33	43		
	Outdoor	45	57	73	
Ref.piping size	Liquid/Gas	ømm 6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")		9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length		m	Max.30		
Vertical height differences		Outdoor is higher/lower m	Max.20 / Max.20		
Outdoor operating temperature range	Cooling	°CDB	-15~46*2		
	Heating	°CWB	-15~20		
Air filter, Q'ty		Pocket Plastic net x2(Washable)			
Remote control (option)		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-E-E3			

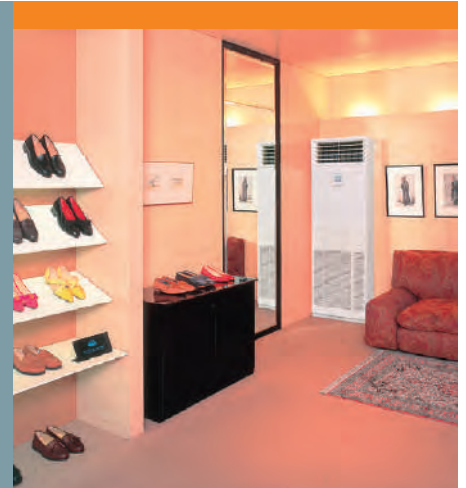
R410A		Standard Inverter			
Set model name		FDE71VNPVH	FDE90VNPVH	FDE100VNPVH	
Indoor unit		FDE71VH	FDE100VH	FDE100VH	
Outdoor unit		FDC71VNP	FDC90VNP1	FDC100VNP	
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)		kW 7.1 ( 1.4 ~ 7.1 )	9.0 ( 1.9 ~ 9.0 )	10.0 ( 2.8 ~ 11.2 )	
Nominal heating capacity (Min~Max)		kW 7.1 ( 1.0 ~ 7.1 )	9.0 ( 1.5 ~ 9.0 )	11.2 ( 2.5 ~ 12.5 )	
Power consumption		Cooling/Heating kW 2.50 / 1.96	2.75 / 2.22	2.66 / 2.94	
EER/COP		Cooling/Heating 2.84 / 3.62	3.27 / 4.05	3.76 / 3.81	
Inrush current		A 5	5	5	
Max. current		14.5	18	21	
Sound power level*1	Indoor	Cooling/Heating 60 / 60	64 / 64	64 / 64	
	Outdoor	Cooling/Heating 67 / 67	69 / 69	70 / 70	
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo) dB(A) 47 / 41 / 37 / 32	48 / 43 / 38 / 34	48 / 43 / 38 / 34	
	Outdoor	Heating (P-Hi/Hi/Me/Lo) 47 / 41 / 37 / 32	48 / 43 / 38 / 34	48 / 43 / 38 / 34	
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo) m³/min 20 / 16 / 13 / 10	32 / 26 / 21 / 16.5	32 / 26 / 21 / 16.5	
	Outdoor	Heating (P-Hi/Hi/Me/Lo) 20 / 16 / 13 / 10	32 / 26 / 21 / 16.5	32 / 26 / 21 / 16.5	
Exterior dimensions	Indoor	HeightxWidthxDepth mm 210 x 1,320 x 690	250 x 1,620 x 690		
	Outdoor	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370	
Net weight	Indoor	kg 33	43		
	Outdoor	45	57	70	
Ref.piping size	Liquid/Gas	ømm 6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")		9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length		m	Max.30		
Vertical height differences		Outdoor is higher/lower m	Max.20 / Max.20		
Outdoor operating temperature range	Cooling	°CDB	-15~46*2		
	Heating	°CWB	-15~20		
Air filter, Q'ty		Pocket Plastic net x2(Washable)			
Remote control (option)		wired:RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless:RCN-E-E3			

# FDF

## Indoor Unit Floor Standing



FDF 71/100/125/140



- Energy Saving
- Home Leave
- Hi Power
- Vertical Auto Swing
- Weekly Timer
- Favourite Setting



### Remote control

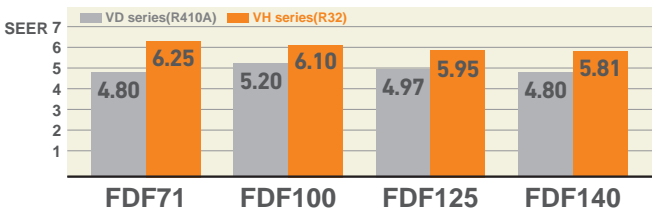
Wired			Wireless	
	<b>New!</b> 			
RC-EX3D	RC-ES1 (option)	RCH-E3 (option)	RCN-KIT4-E2 (option)	

\*Not all functions available with all remote control options.

\*The remote control for the FDF-VD series will be RC-E5 type remote.

## High Efficiency

Energy efficiency is improved by New heat exchanger design (In case of Hyper INV).

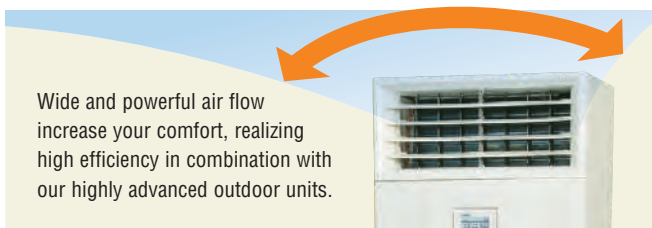


## Improved operability and visibility

Equipped with eco-touch remote control as standard equipment. Various functions can now be controlled. (VH series)



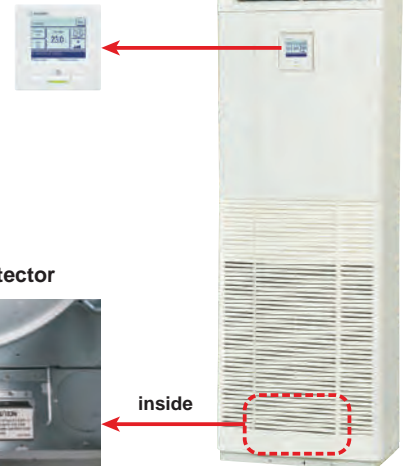
## Wide and Powerful Air Flow



## Equipped with a leak detector device

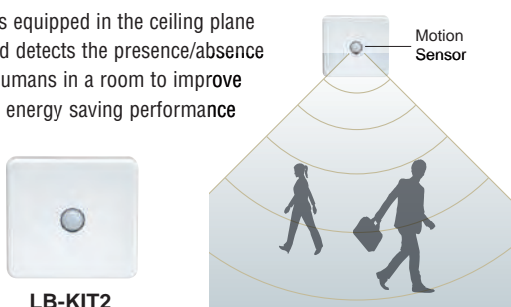
Can now be safely used with the new refrigerant detector that detects leakage of the refrigerant. (VH series)

Remote control will integrate leak detector functions:  
Audible and visible alarm



## Motion Sensor (Option)

Motion sensor is equipped in the ceiling plane or wall plane and detects the presence/absence and activity of humans in a room to improve the comfort and energy saving performance of the unit.





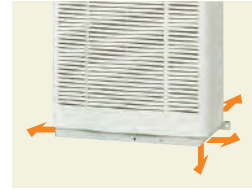
# Easy Transportation and Installation Workability

Piping and drain hose connection can be selected out of 4-directions and the selection makes installation workability more effective.

Due to slim design (Depth: 329mm, weight:49kg), easy transportation and installation are realized.

## Easy Maintenance

The surface of heat exchanger can be appeared only removing the front panel. Easy cleaning of heat exchanger is possible.

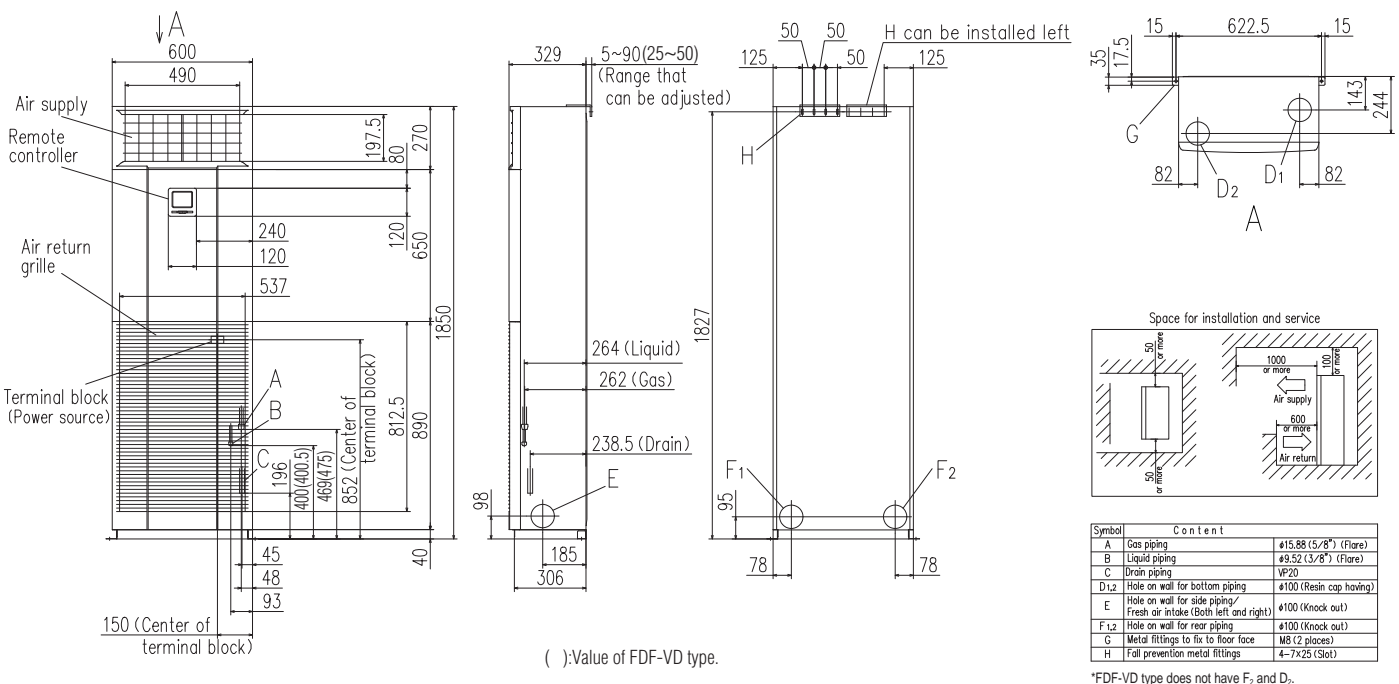


## OUTDOOR UNIT

		Hyper Inverter	
FDC		71VNX-W	100~140VN(S)X-W
		71VNX	100~140VN(S)X
model			
Chargeless		30m	
Height x Width x Depth (mm)		750 x 880(+88) x 340	1,300 x 970 x 370

		Micro Inverter			Standard Inverter		
FDC		100~140VN(S)A-W	-	200*250*280VSA-W	71VNP-W	90*100VNP-W	-
		100~140VN(S)A	200VSA	250VSA	71VNP	90VNP1	100VNP
model							
Chargeless		30m			15m		
Height x Width x Depth (mm)		845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370

## DIMENSIONS (Unit:mm) - FDF -



## SPECIFICATIONS - FDF -

R32		Hyper Inverter			
Set model name		FDF71VNXVWH	FDF100VNXVWH	FDF125VNXVWH	FDF140VNXVWH
Indoor unit		FDF71VH	FDF100VH	FDF125VH	FDF140VH
Outdoor unit		FDC71VNX-W	FDC100VNX-W	FDC125VNX-W	FDC140VNX-W
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min-Max)		kW 7.1 (3.2 ~ 8.0)	10.0 (3.5 ~ 11.2)	12.5 (3.5 ~ 14.0)	14.0 (3.5 ~ 16.0)
Nominal heating capacity (Min-Max)		kW 8.0 (3.6 ~ 9.0)	11.2 (2.7 ~ 12.5)	14.0 (2.7 ~ 17.0)	16.0 (2.7 ~ 18.0)
Power consumption		Cooling/Heating kW 1.97 / 2.21	2.66 / 2.94	3.74 / 3.88	4.62 / 4.69
EER/COP		Cooling/Heating 3.61 / 3.62	3.76 / 3.81	3.34 / 3.61	3.03 / 3.41
Inrush current		A 5			
Max. current		A 19.1			
Sound power level*1	Indoor	Cooling/Heating	55 / 55	65 / 65	67 / 67
	Outdoor	Cooling/Heating	66 / 66	67 / 67	68 / 70
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	dB(A) 42 / 39 / 35 / 33		53 / 51 / 49 / 44
		Heating (P-Hi/Hi/Me/Lo)	42 / 39 / 35 / 33		53 / 51 / 49 / 44
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m³/min 18 / 16 / 14 / 12		27 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)	18 / 16 / 14 / 12		27 / 26 / 23 / 19
Outdoor		Cooling/Heating	60 / 50		100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm 1,850 × 600 × 329		
	Outdoor		750 × 880(+88) × 340		
Net weight	Indoor		kg 49		
	Outdoor		60		
Ref.piping size		Liquid/Gas	ømm 9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m	Max.50		
Vertical height differences		Outdoor is higher/lower	m Max.30 / Max.15		
Outdoor operating temperature range		Cooling	°CDB -15~50*2		
		Heating	°CWB -20~20		
Air filter, Q'ty			Plastic net x1(Washable)		
Remote control (option)			wired : RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless : RCN-KIT4-E2		

R32		Hyper Inverter			
Set model name		FDF100VSXVWH	FDF125VSXVWH	FDF140VSXVWH	
Indoor unit		FDF100VH	FDF125VH	FDF140VH	
Outdoor unit		FDC100VSX-W	FDC125VSX-W	FDC140VSX-W	
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min-Max)		kW 10.0 (3.5 ~ 11.2)	12.5 (3.5 ~ 14.0)	14.0 (3.5 ~ 16.0)	
Nominal heating capacity (Min-Max)		kW 11.2 (2.7 ~ 16.0)	14.0 (2.7 ~ 18.0)	16.0 (2.7 ~ 20.0)	
Power consumption		Cooling/Heating kW 2.66 / 2.95	3.74 / 3.88	4.62 / 4.70	
EER/COP		Cooling/Heating 3.76 / 3.80	3.34 / 3.61	3.03 / 3.41	
Inrush current		A 5			
Max. current		A 14.0			
Sound power level*1	Indoor	Cooling/Heating	65 / 65		67 / 67
	Outdoor	Cooling/Heating	67 / 67		68 / 70
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	dB(A) 53 / 51 / 49 / 44		55 / 51 / 49 / 44
		Heating (P-Hi/Hi/Me/Lo)	53 / 51 / 49 / 44		55 / 51 / 49 / 44
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m³/min 27 / 26 / 23 / 19		29 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)	27 / 26 / 23 / 19		29 / 26 / 23 / 19
Outdoor		Cooling/Heating	100 / 100		100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm 1,850 × 600 × 329		
	Outdoor		1300 × 970 × 370		
Net weight	Indoor		kg 49		
	Outdoor		99		
Ref.piping size		Liquid/Gas	ømm 9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m	Min. 3, Max.100		
Vertical height differences		Outdoor is higher/lower	m Max.50 / Max.15		
Outdoor operating temperature range		Cooling	°CDB -15~50*2		
		Heating	°CWB -20~20		
Air filter, Q'ty			Plastic net x 1(washable)		
Remote control (option)			wired : RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless : RCN-KIT4-E2		

### NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : ISO-T1).  
Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  
\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.  
\*3 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

R32			Hyper Inverter	
Set model name			fdf140VNXWPVH	fdf140VXSXWPVH
			Twin	
Indoor unit			fdf71VH x 2	
Outdoor unit			FDC140VNX-W	
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz	
Nominal cooling capacity (Min~Max)			14.0 ( 3.5 ~ 16.0 )	
Nominal heating capacity (Min~Max)			16.0 ( 2.7 ~ 18.0 )	
Power consumption			3.78 / 4.26	
EER/COP			3.71 / 3.75	
Inrush current			5	
Max. current			27.0	
Sound power level*1	Indoor	Cooling/Heating	55 / 55	
	Outdoor	Cooling/Heating	69 / 71	
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	42 / 39 / 35 / 33	
	Indoor	Heating (P-Hi/Hi/Me/Lo)	42 / 39 / 35 / 33	
	Outdoor	Cooling/Heating	54 / 54	
	Outdoor	Cooling/Heating	100 / 100	
Exterior dimensions			1,850 × 600 × 329	
			1300 × 970 × 370	
Net weight			47	
			97	
Ref.piping size			9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length			Min. 3, Max.100	
Vertical height differences			Max.50 / Max.15	
Outdoor operating temperature range			-15~50*2	
			-20~20	
Air filter, Q'ty			Plastic net x1(Washable)	
Remote control (option)			wired : RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless : RCN-KIT4-E2	

R410A			Hyper Inverter			
Set model name			fdf71VNXVD1	fdf100VNXVD2	fdf125VNXVD	fdf140VNXVD
Indoor unit			fdf71VD1			
Outdoor unit			FDC71VNX			
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)			7.1 ( 3.2 ~ 8.0 )			
Nominal heating capacity (Min~Max)			8.0 ( 3.6 ~ 9.0 )			
Power consumption			2.21 / 2.21			
EER/COP			3.21 / 3.62			
Inrush current			5			
Max. current			17			
Sound power level*1	Indoor	Cooling/Heating	61 / 61			
	Outdoor	Cooling/Heating	66 / 66			
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	42 / 39 / 35 / 33			
	Indoor	Heating (P-Hi/Hi/Me/Lo)	42 / 39 / 35 / 33			
	Outdoor	Cooling/Heating	51 / 48			
	Outdoor	Cooling/Heating	60 / 50			
Exterior dimensions			1,850 × 600 × 329			
			750 × 880(+88) × 340			
Net weight			49			
			60			
Ref.piping size			9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length			Max.50			
Vertical height differences			Max.30 / Max.15			
Outdoor operating temperature range			-15~43*2			
			-20~20			
Air filter, Q'ty			Plastic net x 1(washable)			
Remote control			wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)			

## SPECIFICATIONS - FDF -

R410A		Hyper Inverter		
Set model name		FDF100VSXVD2	FDF125VSXVD	FDF140VSXVD
Indoor unit		FDF100VD2	FDF125VD	FDF140VD
Outdoor unit		FDC100VSX	FDC125VSX	FDC140VSX
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min-Max)		kW 10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min-Max)		kW 11.2 ( 4.0 ~ 16.0 )	14.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )
Power consumption	Cooling/Heating	kW 2.83 / 3.04	3.89 / 3.88	4.65 / 4.69
EER/COP	Cooling/Heating	3.53 / 3.68	3.21 / 3.61	3.01 / 3.41
Inrush current		A 5	5	5
Max. current		15	15	15
Sound power level*1	Indoor	Cooling/Heating	65 / 65	73 / 73
	Outdoor	Cooling/Heating	70 / 70	72 / 72
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	54 / 50 / 48 / 44	54 / 50 / 48 / 44
		Heating (P-Hi/Hi/Me/Lo)	54 / 50 / 48 / 44	54 / 50 / 48 / 44
	Outdoor	Cooling/Heating	48 / 50	49 / 52
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	29 / 26 / 23 / 19	29 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)	29 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Cooling/Heating	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm 1,850 x 600 x 329	
	Outdoor		1,300 x 970 x 370	
Net weight	Indoor		kg 52	
	Outdoor		105	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length		m	Max.100	
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15	
Outdoor operating temperature range	Cooling	°CDB	-15~43*2	
	Heating	°CWB	-20~20	
Air filter, Q'ty			Plastic net x 1(washable)	
Remote control			wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)	

The values are for simultaneous Multi operation.

R410A		Hyper Inverter		
Set model name		FDF140VNXPD1	Twin	FDF140VSXPVD1
Indoor unit		FDF71VD1 x 2		FDF71VD1 x 2
Outdoor unit		FDC140VNX		FDC140VSX
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz		3 Phase 380-415V, 50Hz / 380V 60Hz
Nominal cooling capacity (Min-Max)		kW 14.0 ( 5.0 ~ 16.0 )		14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min-Max)		kW 16.0 ( 4.0 ~ 18.0 )		16.0 ( 4.0 ~ 20.0 )
Power consumption	Cooling/Heating	kW 4.83 / 4.97		4.83 / 4.97
EER/COP	Cooling/Heating	2.90 / 3.22		2.90 / 3.22
Inrush current		A 5		5
Max. current		26		15
Sound power level*1	Indoor*3	Cooling/Heating	61 / 61	61 / 61
	Outdoor	Cooling/Heating	72 / 72	72 / 72
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	42 / 39 / 35 / 33	42 / 39 / 35 / 33
		Heating (P-Hi/Hi/Me/Lo)	42 / 39 / 35 / 33	42 / 39 / 35 / 33
	Outdoor	Cooling/Heating	49 / 52	49 / 52
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	18 / 16 / 14 / 12	18 / 16 / 14 / 12
		Heating (P-Hi/Hi/Me/Lo)	18 / 16 / 14 / 12	18 / 16 / 14 / 12
	Outdoor	Cooling/Heating	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm 1,850 x 600 x 329	
	Outdoor		1,300 x 970 x 370	
Net weight	Indoor		kg 49	
	Outdoor		105	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length		m	Max.100	
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15	
Outdoor operating temperature range	Cooling	°CDB	-15~43*2	
	Heating	°CWB	-20~20	
Air filter, Q'ty			Plastic net x 1(washable)	
Remote control			wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)	

### NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : ISO-T1).  
Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  
\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.  
\*3 : The values are for one indoor unit operation. (Multi system only)

R32		Micro Inverter		
Set model name		FDF100VNAWVH	FDF125VNAWVH	FDF140VNAWVH
Indoor unit		FDF100VH	FDF125VH	FDF140VH
Outdoor unit		FDC100VNA-W	FDC125VNA-W	FDC140VNA-W
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min-Max)		kW 10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min-Max)		kW 11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption		Cooling/Heating kW 3.08 / 2.94	4.65 / 4.10	5.35 / 4.98
EER/COP		Cooling/Heating 3.25 / 3.81	2.69 / 3.42	2.54 / 3.11
Inrush current		A 5	5	5
Max. current		24.0	24.0	24.0
Sound power level*1	Indoor	Cooling/Heating 65 / 65	67 / 67	67 / 67
	Outdoor	Cooling/Heating 69 / 70	71 / 71	72 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo) dB(A) 53 / 51 / 49 / 44	55 / 51 / 49 / 44	55 / 51 / 49 / 44
		Heating (P-Hi/Hi/Me/Lo) 53 / 51 / 49 / 44	55 / 51 / 49 / 44	55 / 51 / 49 / 44
	Outdoor	Cooling/Heating 54 / 55	54 / 56	56 / 58
		Cooling (P-Hi/Hi/Me/Lo) m³/min 27 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo) 27 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
		Outdoor	Cooling/Heating 75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth mm	1,850 × 600 × 329	
	Outdoor	845 × 970 × 370		
Net weight	Indoor	kg	49	
	Outdoor	77		
Ref.piping size		Liquid/Gas ømm	9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length		m	Max.50	
Vertical height differences		Outdoor is higher/lower m	Max.50 / Max.15	
Outdoor operating temperature range	Cooling	°CDB	-15~50*2	
	Heating	°CWB	-20~20	
Air filter, Q'ty		Plastic net x1(Washable)		
Remote control (option)		wired : RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless : RCN-KIT4-E2		

R32		Micro Inverter		
Set model name		FDF100VSAWVH	FDF125VSAWVH	FDF140VSAWVH
Indoor unit		FDF100VH	FDF125VH	FDF140VH
Outdoor unit		FDC100VSA-W	FDC125VSA-W	FDC140VSA-W
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min-Max)		kW 10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min-Max)		kW 11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption		Cooling/Heating kW 3.09 / 2.94	4.65 / 4.09	5.42 / 4.98
EER/COP		Cooling/Heating 3.25 / 3.81	2.69 / 3.42	2.51 / 3.11
Inrush current		A 5	5	5
Max. current		15.0	15.0	15.0
Sound power level*1	Indoor	Cooling/Heating 65 / 65	67 / 67	67 / 67
	Outdoor	Cooling/Heating 69 / 70	71 / 71	72 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo) dB(A) 53 / 51 / 49 / 44	55 / 51 / 49 / 44	55 / 51 / 49 / 44
		Heating (P-Hi/Hi/Me/Lo) 53 / 51 / 49 / 44	55 / 51 / 49 / 44	55 / 51 / 49 / 44
	Outdoor	Cooling/Heating 54 / 55	54 / 56	56 / 58
		Cooling (P-Hi/Hi/Me/Lo) m³/min 27 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo) 27 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
		Outdoor	Cooling/Heating 75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth mm	1,850 × 600 × 329	
	Outdoor	845 × 970 × 370		
Net weight	Indoor	kg	49	
	Outdoor	78		
Ref.piping size		Liquid/Gas ømm	9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length		m	Max.50	
Vertical height differences		Outdoor is higher/lower m	Max.50 / Max.15	
Outdoor operating temperature range	Cooling	°CDB	-15~50*2	
	Heating	°CWB	-20~20	
Air filter, Q'ty		Plastic net x1(Washable)		
Remote control (option)		wired : RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless : RCN-KIT4-E2		

# SPECIFICATIONS - FDF -

The values are for simultaneous Multi operation.

R32			Micro Inverter				
Set model name			FDF140VNAWPVH	FDF140VSAWPVH	FDF200VSAWPVH	FDF250VSAWPVH	FDF280VSAWPVH
Indoor unit			FDF71VH x 2	FDF71VH x 2	FDF100VH x 2	FDF125VH x 2	FDF140VH x 2
Outdoor unit			FDC140VNA-W	FDC140VSA-W	FDC200VSA-W	FDC250VSA-W	FDC280VSA-W
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			kW 13.6 ( 5.0 ~ 14.5 )	13.6 ( 5.0 ~ 14.5 )	20.0 ( 6.8 ~ 22.4 )	25.0 ( 6.8 ~ 28.0 )	27.0 ( 7.5 ~ 31.5 )
Nominal heating capacity (Min~Max)			kW 15.5 ( 4.0 ~ 16.5 )	15.5 ( 4.0 ~ 16.5 )	22.4 ( 6.6 ~ 25.0 )	28.0 ( 5.7 ~ 31.5 )	30.0 ( 6.3 ~ 33.5 )
Power consumption			kW 4.46 / 4.49	4.58 / 4.49	6.71 / 6.06	9.54 / 8.37	10.93 / 9.47
EER/COP			Cooling/Heating 3.05 / 3.46	3.05 / 3.46	2.98 / 3.69	2.62 / 3.35	2.47 / 3.17
Inrush current			A 5	5	5	5	5
Max. current			24.0	15.0	19.0	20.0	20.0
Sound power level*1	Indoor	Cooling/Heating	55 / 55	55 / 55	65 / 65	67 / 67	67 / 67
	Outdoor	Cooling/Heating	72 / 73	72 / 73	72 / 74	73 / 75	75 / 77
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	42 / 39 / 35 / 33	42 / 39 / 35 / 33	53 / 51 / 49 / 44	55 / 51 / 49 / 44	55 / 51 / 49 / 44
		Heating (P-Hi/Hi/Me/Lo)	42 / 39 / 35 / 33	42 / 39 / 35 / 33	53 / 51 / 49 / 44	55 / 51 / 49 / 44	55 / 51 / 49 / 44
	Outdoor	Cooling/Heating	56 / 58	56 / 58	58 / 59	58 / 62	61 / 63
		Cooling/Heating	75 / 73	75 / 73	148 / 134	148 / 153	136 / 140
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	18 / 16 / 14 / 12	18 / 16 / 14 / 12	27 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Cooling/Heating	75 / 73	75 / 73	148 / 134	148 / 153	136 / 140
Exterior dimensions	Indoor	HeightxWidthxDepth	1,850 x 600 x 329				
	Outdoor	HeightxWidthxDepth	845 x 970 x 370		1505 x 970 x 370		
Net weight	Indoor		47		49		
	Outdoor		77	78	144	145	155
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		9.52(3/8") / 22.22(7/8")	12.7(1/2") / 22.22(7/8")	
Refrigerant line (one way) length		m	Max.50		Max.70		Max.60
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15		Max.50*4 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50*2				
	Heating	°CWB	-20~20				
Air filter, Q'ty			Plastic net x1(Washable)				
Remote control (option)			wired : RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless : RCN-KIT4-E2				

R410A			Micro Inverter			
Set model name			FDF100VNAVD2	FDF125VNAVD	FDF140VNAVD	
Indoor unit			FDF100VD2	FDF125VD	FDF140VD	
Outdoor unit			FDC100VNA	FDC125VNA	FDC140VNA	
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)			kW 10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 13.0 )	13.0 ( 5.0 ~ 13.0 )	
Nominal heating capacity (Min~Max)			kW 11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )	
Power consumption			kW 3.12 / 2.94	4.65 / 4.14	5.02 / 4.98	
EER/COP			Cooling/Heating 3.21 / 3.81	2.69 / 3.38	2.59 / 3.11	
Inrush current			A 5	5	5	
Max. current			24	24	24	
Sound power level*1	Indoor	Cooling/Heating	65 / 65	73 / 73	73 / 73	
	Outdoor	Cooling/Heating	70 / 70	71 / 71	73 / 73	
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44	
		Heating (P-Hi/Hi/Me/Lo)	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44	
	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59	
		Cooling/Heating	75 / 73	75 / 73	75 / 73	
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19	
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73	
Exterior dimensions	Indoor	HeightxWidthxDepth	1,850 x 600 x 329			
	Outdoor	HeightxWidthxDepth	845 x 970 x 370			
Net weight	Indoor		52			
	Outdoor		80			
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length		m	Max.50			
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15			
Outdoor operating temperature range	Cooling	°CDB	-15~50*2			
	Heating	°CWB	-20~20			
Air filter, Q'ty			Plastic net x1(Washable)			
Remote control			wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)			

NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : ISO-T1).  
Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  
\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.  
\*3 : The values are for one indoor unit operation. (Multi system only)  
\*4 : In case of following conditions:Max.50m(Outdoor unit is higher & Outdoor temperature ≤ 43°C), Max.30m(Outdoor unit is higher & Outdoor temperature > 43°C)

R410A		Micro Inverter		
Set model name		FDF100VSAVD2	FDF125VSAVD	FDF140VSAVD
Indoor unit		FDF100VD2	FDF125VD	FDF140VD
Outdoor unit		FDC100VSA	FDC125VSA	FDC140VSA
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)	kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)	kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption	Cooling/Heating	3.12 / 2.94	4.65/ 4.14	5.42 / 4.98
EER/COP	Cooling/Heating	3.21 / 3.81	2.69 / 3.38	2.51 / 3.11
Inrush current		5	5	5
Max. current		15	15	15
Sound power level*1	Indoor	Cooling/Heating	65 / 65	73 / 73
	Outdoor	Cooling/Heating	70 / 70	73 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	54 / 50 / 48 / 44	54 / 50 / 48 / 44
		Heating (P-Hi/Hi/Me/Lo)	54 / 50 / 48 / 44	54 / 50 / 48 / 44
	Outdoor	Cooling/Heating	54 / 56	55 / 57
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	29 / 26 / 23 / 19	29 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)	29 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Cooling/Heating	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	1,850 x 600 x 329	
	Outdoor		845 x 970 x 370	
Net weight	Indoor		52	
	Outdoor		82	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length		m	Max.50	
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15	
Outdoor operating temperature range	Cooling	°CDB	-15~50*2	
	Heating	°CWB	-20~20	
Air filter, Q'ty			Plastic net x 1(Washable)	
Remote control			wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)	

The values are for simultaneous Multi operation.

R410A		Micro Inverter			
Set model name		FDF140VNAPVD1	FDF140VSAPVD1	FDF200VSAPVD2	FDF250VSAPVD
		Twin			
Indoor unit		FDF71VD1 x 2	FDF71VD1 x 2	FDF100VD2 x 2	FDF125VD x 2
Outdoor unit		FDC140VNA	FDC140VSA	FDC200VSA	FDC250VSA
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz		3 Phase 380-415V, 50Hz / 380V, 60Hz	
Nominal cooling capacity (Min~Max)	kW	13.6 ( 5.0 ~ 14.5 )	13.6 ( 5.0 ~ 14.5 )	19.0 ( 5.2 ~ 22.4 )	24.0 ( 6.9 ~ 28.0 )
Nominal heating capacity (Min~Max)	kW	15.5 ( 4.0 ~ 16.5 )	15.5 ( 4.0 ~ 16.5 )	22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )
Power consumption	Cooling/Heating	5.15 / 4.35	5.15 / 4.35	6.74 / 6.42	9.15 / 8.49
EER/COP	Cooling/Heating	2.64 / 3.56	2.64 / 3.56	2.82 / 3.49	2.62 / 3.18
Inrush current		5	5	5	5
Max. current		24	15	20	21
Sound power level*1	Indoor*3	Cooling/Heating	61 / 61	65 / 65	73 / 73
	Outdoor	Cooling/Heating	73 / 73	72 / 74	73 / 75
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	42 / 39 / 35 / 33	54 / 50 / 48 / 44	54 / 50 / 48 / 44
		Heating (P-Hi/Hi/Me/Lo)	42 / 39 / 35 / 33	54 / 50 / 48 / 44	54 / 50 / 48 / 44
	Outdoor	Cooling/Heating	57 / 59	58 / 59	59 / 62
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	18 / 16 / 14 / 12	29 / 26 / 23 / 19	29 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)	18 / 16 / 14 / 12	29 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Cooling/Heating	75 / 73	135 / 135	143 / 151
Exterior dimensions	Indoor	HeightxWidthxDepth	1,850 x 600 x 329		
	Outdoor		845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370
Net weight	Indoor		49		
	Outdoor		80	82	115
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		12.7(1/2") / 22.22(7/8")
Refrigerant line (one way) length		m	Max.50		Max.70
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15		Max.30 / Max.15
Outdoor operating temperature range	Cooling	°CDB	-15~50*2		
	Heating	°CWB	-20~20		-15~20
Air filter, Q'ty			Plastic net x 1(washable)		
Remote control			wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)		

## SPECIFICATIONS - FDF -

R32			Standard Inverter		
Set model name			FDF71VNPVH	FDF90VNPVH	FDF100VNPVH
Indoor unit			FDF71VH	FDF100VH	FDF100VH
Outdoor unit			FDC71VNP-W	FDC90VNP-W	FDC100VNP-W
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min-Max)			kW 7.1 ( 1.5 ~ 7.3 )	9.0 ( 2.1 ~ 9.5 )	10.0 ( 2.1 ~ 10.2 )
Nominal heating capacity (Min-Max)			kW 7.1 ( 1.1 ~ 7.3 )	9.0 ( 1.7 ~ 9.5 )	10.0 ( 1.7 ~ 10.4 )
Power consumption			Cooling/Heating kW 2.51 / 2.02	2.50 / 2.24	3.39 / 2.71
EER/COP			Cooling/Heating 2.82 / 3.51	3.60 / 4.02	2.95 / 3.69
Inrush current			A 5	5	5
Max. current			15.8	19.0	19.0
Sound power level*1	Indoor	Cooling/Heating	55 / 55	65 / 65	65 / 65
	Outdoor	Cooling/Heating	67 / 67	67 / 66	68 / 67
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	dB(A) 42 / 39 / 35 / 33	53 / 51 / 49 / 44	53 / 51 / 49 / 44
		Heating (P-Hi/Hi/Me/Lo)		53 / 51 / 49 / 44	53 / 51 / 49 / 44
	Outdoor	Cooling/Heating	54 / 54	55 / 53	56 / 54
		Cooling/Heating	18 / 16 / 14 / 12	27 / 26 / 23 / 19	27 / 26 / 23 / 19
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	18 / 16 / 14 / 12	27 / 26 / 23 / 19	27 / 26 / 23 / 19
	Outdoor	Cooling/Heating	42 / 42	59 / 55	63 / 55
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 x 600 x 329	
	Outdoor			640x800(+71)x290	750x880(+88)x340
Net weight	Indoor		kg	47	49
	Outdoor			45	57
Ref.piping size	Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")		
Refrigerant line (one way) length			m	Max.26	Max.25
Vertical height differences			Outdoor is higher/lower	m Max.20 / Max.20	
Outdoor operating temperature range	Cooling	°CDB	-15~46*2		
	Heating	°CWB	-15~20		
Air filter, Q'ty			Plastic net x1(Washable)		
Remote control (option)			wired : RC-EX3D, RC-E5, RC-ES1, RCH-E3 wireless : RCN-KIT4-E2		

R410A			Standard Inverter		
Set model name			FDF71VNPVD1	FDF90VNP1VD2	FDF100VNP1VD2
Indoor unit			FDF71VD1	FDF100VD2	FDF100VD2
Outdoor unit			FDC71VNP	FDC90VNP1	FDC100VNP
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min-Max)			kW 7.1 ( 1.4 ~ 7.1 )	9.0 ( 1.9 ~ 9.0 )	10.0 ( 2.8 ~ 11.2 )
Nominal heating capacity (Min-Max)			kW 7.1 ( 1.0 ~ 7.1 )	9.0 ( 1.5 ~ 9.0 )	11.2 ( 2.5 ~ 12.5 )
Power consumption			Cooling/Heating kW 2.67 / 2.04	2.81 / 2.25	3.19 / 3.09
EER/COP			Cooling/Heating 2.66 / 3.48	3.20 / 4.00	3.13 / 3.62
Inrush current			A 5	5	5
Max. current			14.5	18.0	21.0
Sound power level*1	Indoor	Cooling/Heating	61 / 61	65 / 65	65 / 65
	Outdoor	Cooling/Heating	67 / 67	69 / 69	70 / 70
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	dB(A) 42 / 39 / 35 / 33	54 / 50 / 48 / 44	54 / 50 / 48 / 44
		Heating (P-Hi/Hi/Me/Lo)		54 / 50 / 48 / 44	54 / 50 / 48 / 44
	Outdoor	Cooling/Heating	54 / 54	57 / 55	57 / 61
		Cooling/Heating	20 / 18 / 16 / 14	29 / 26 / 23 / 19	29 / 26 / 23 / 19
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	20 / 18 / 16 / 14	29 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Cooling/Heating	36 / 36	63 / 49.5	75 / 79
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 x 600 x 329	
	Outdoor			640 x 800(+71) x 290	750 x 880(+88) x 340
Net weight	Indoor		kg	49	52
	Outdoor			45	57
Ref.piping size	Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")		
Refrigerant line (one way) length			m	Max.23	Max.30
Vertical height differences			Outdoor is higher/lower	m Max.20 / Max.20	
Outdoor operating temperature range	Cooling	°CDB	-15~46*2		
	Heating	°CWB	-15~20		
Air filter, Q'ty			Plastic net x1(Washable)		
Remote control			wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)		

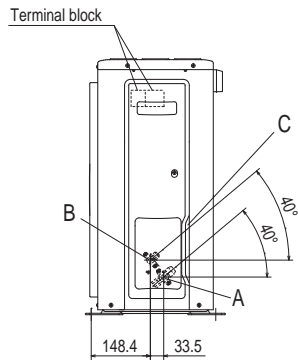
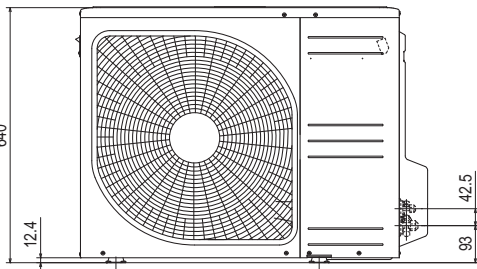
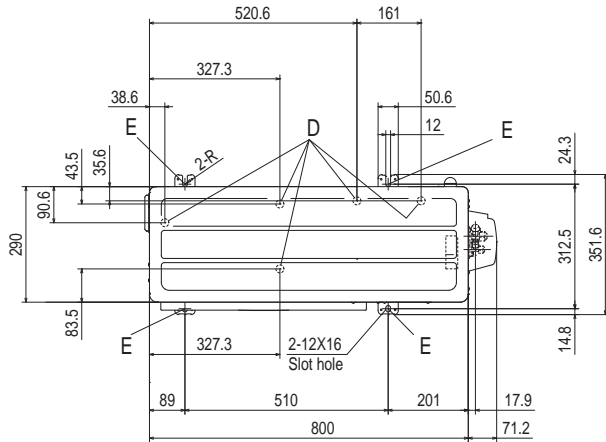
### NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : ISO-T1).  
Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  
\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.



# Outdoor Unit Dimensions (Unit:mm)

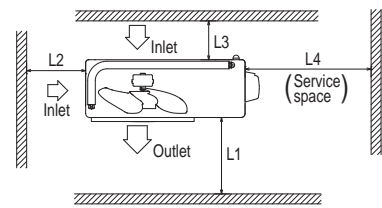
SRC40ZSX-W1, 50ZSX-W3, 60ZSX-W3  
SRC40ZSX-S, 50ZSX-S, 60ZSX-S



Symbol	Content	
A	Service valve connection (Gas side)	φ 12.7(1/2")(Flare)
B	Service valve connection (Liquid side)	φ 6.35(1/4")(Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	φ 20x5 places
E	Anchor bolt hole	M10-12x4 places

Notes

- (1) The unit must not be surrounded by walls on the four sides.
- (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
- (3) If the unit is installed in the location where there is a possibility of strong winds, place the unit such that the direction of air from the outlet gets perpendicular to the wind direction.
- (4) Leave 200mm or more space above the unit.
- (5) The wall height on the outlet side should be 1200mm or less.
- (6) The model name label is attached on the front side of the unit.



Minimum installation space

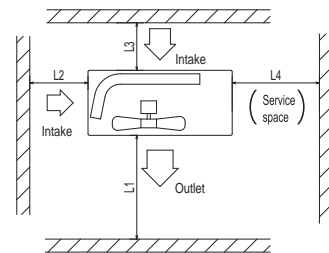
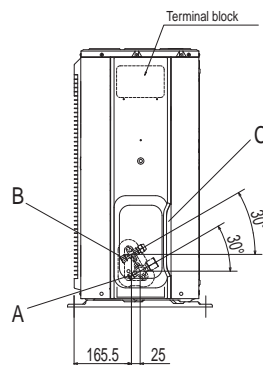
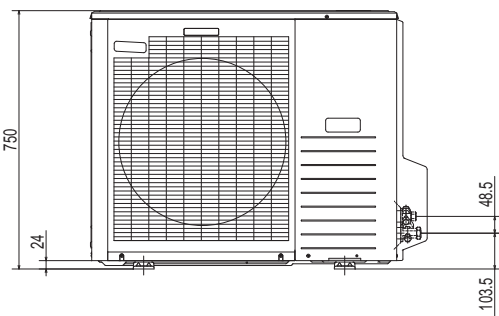
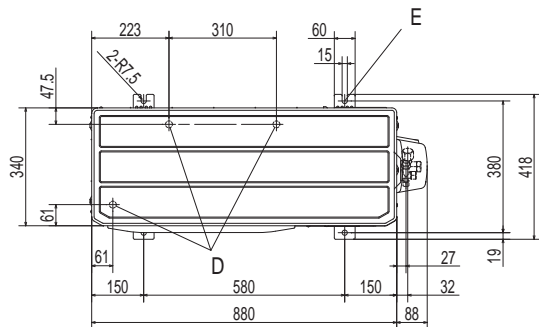
Examples installation	I	II	III	IV
Size				
L1	Open	280	280	180
L2	100	75	Open	Open
L3	100	80	80	80
L4	250	Open	250	Open

FDC71VNX-W  
FDC71VNX

Symbol	Content	
A	Service valve connection (gas side)	φ 15.88 (5/8") (Flare)
B	Service valve connection (liquid side)	φ 9.52 (3/8") (Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	φ 20 x 3places
E	Anchor bolt hole	M10 x 4places

Notes

- (1) It must not be surrounded by walls on the four sides.
- (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
- (3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
- (4) Leave 1m or more space above the unit.
- (5) A wall in front of the blower outlet must not exceed the units height.
- (6) The model name label is attached on the lower right corner of the front panel.

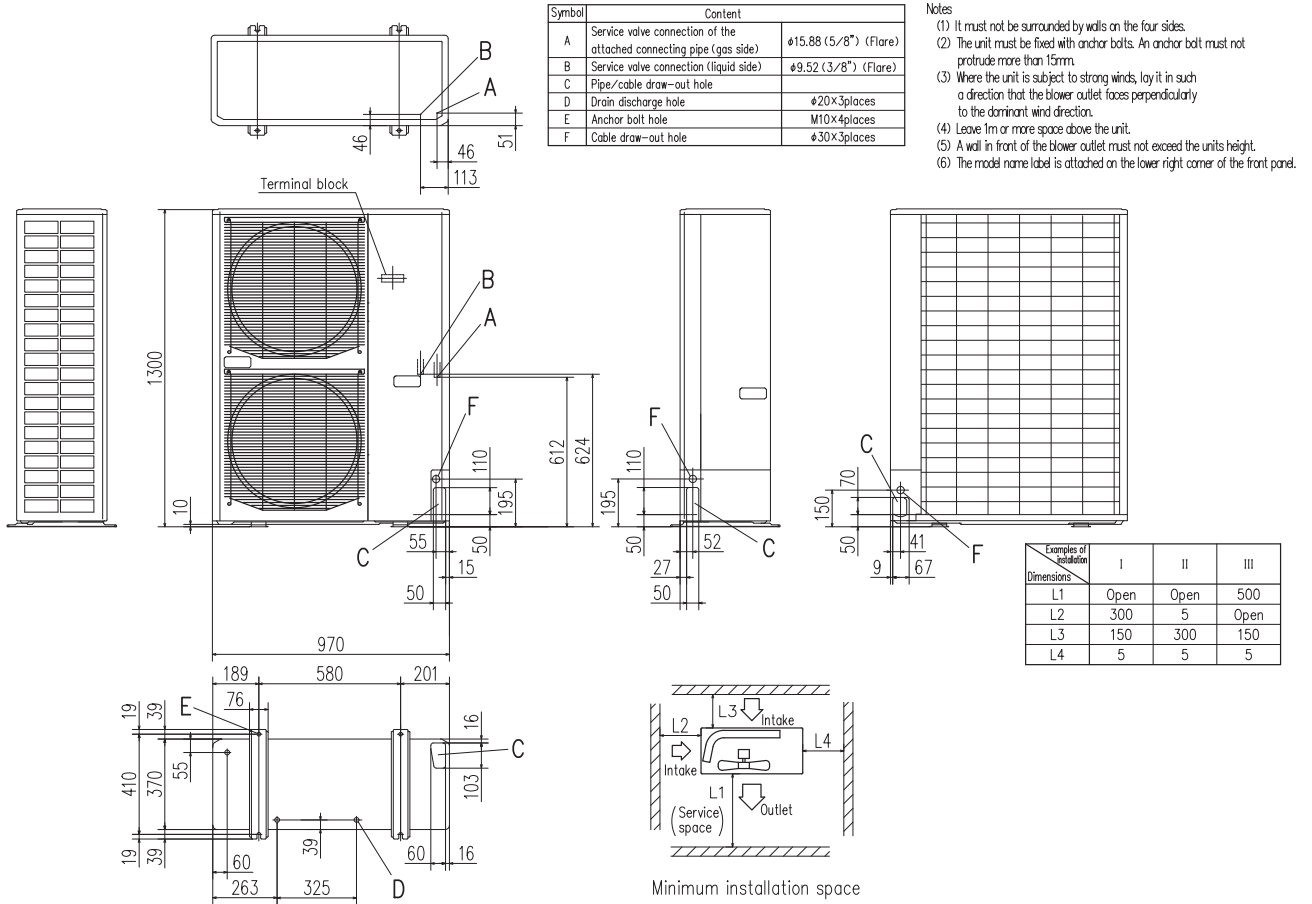


Minimum installation space

Examples of installation	I	II	III
Dimensions			
L1	Open	Open	500
L2	300	250	Open
L3	100	150	100
L4	250	250	250

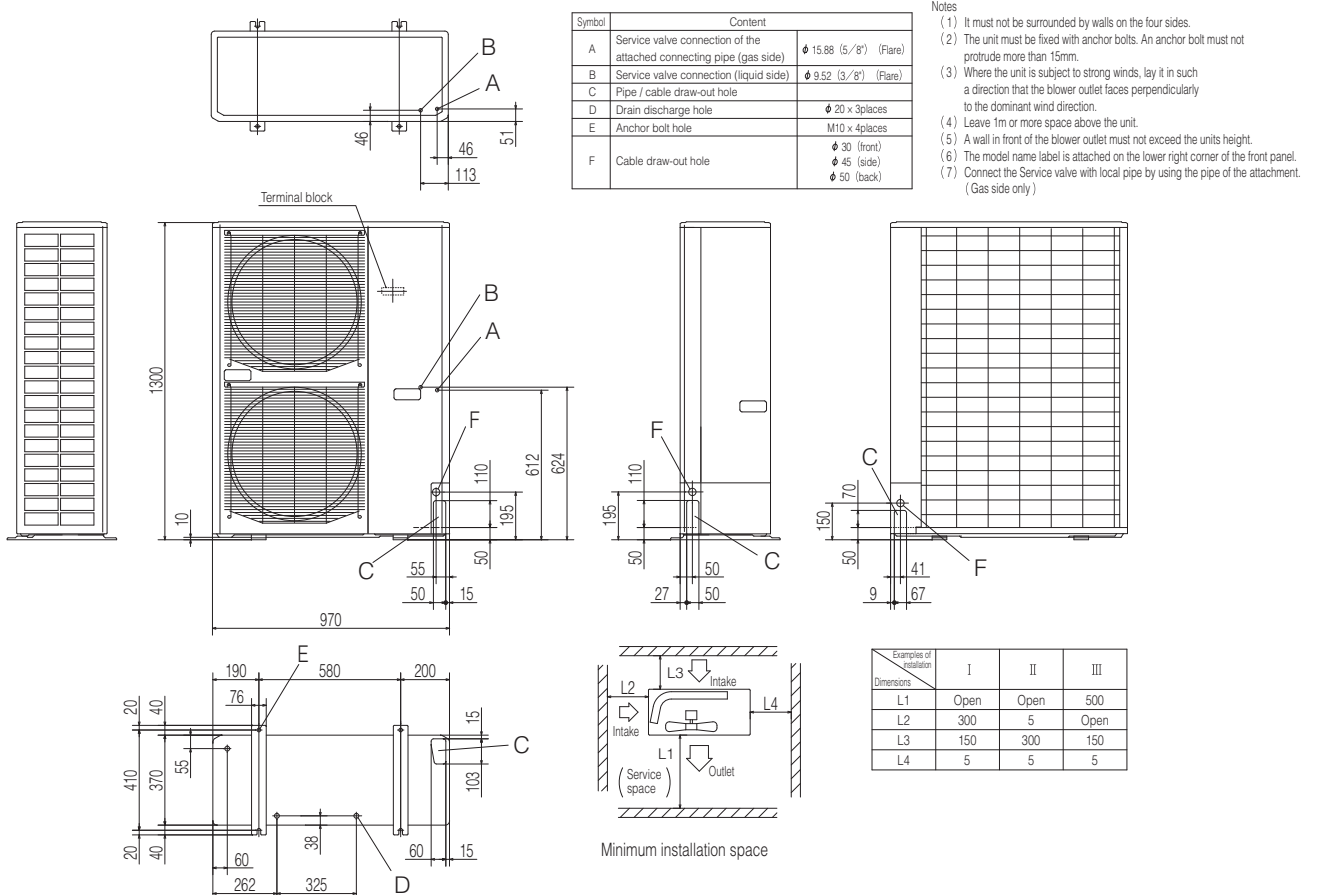
# Outdoor Unit Dimensions (Unit:mm)

FDC100VNX-W, 125VNX-W, 140VNX-W, 100VSX-W, 125VSX-W, 140VSX-W



- Notes
- (1) It must not be surrounded by walls on the four sides.
  - (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
  - (3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
  - (4) Leave 1m or more space above the unit.
  - (5) A wall in front of the blower outlet must not exceed the units height.
  - (6) The model name label is attached on the lower right corner of the front panel.

FDC100VNX, 125VNX, 140VNX, 100VSX, 125VSX, 140VSX

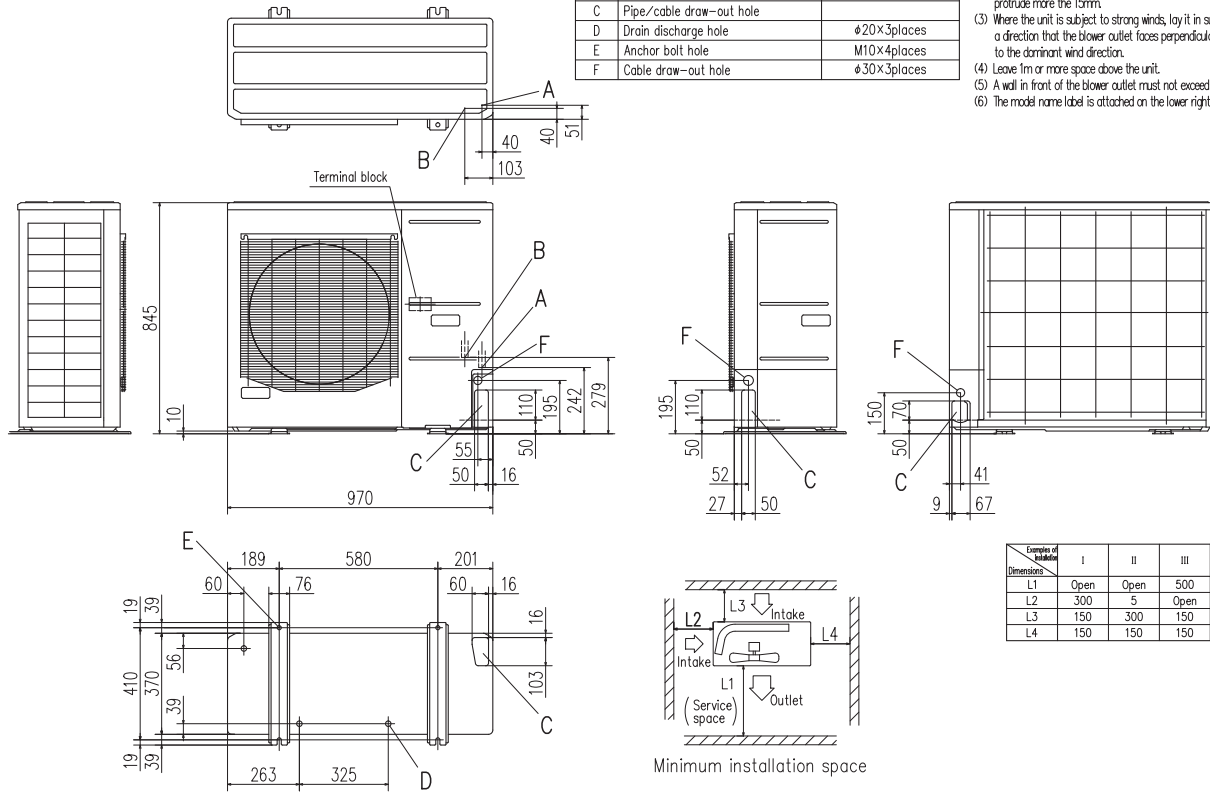


- Notes
- (1) It must not be surrounded by walls on the four sides.
  - (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
  - (3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
  - (4) Leave 1m or more space above the unit.
  - (5) A wall in front of the blower outlet must not exceed the units height.
  - (6) The model name label is attached on the lower right corner of the front panel.
  - (7) Connect the Service valve with local pipe by using the pipe of the attachment. (Gas side only)

FDC100VNA-W, 125VNA-W, 140VNA-W, 100VSA-W, 125VSA-W, 140VSA-W  
 FDC100VNA, 125VNA, 140VNA, 100VSA, 125VSA, 140VSA

Symbol	Content	
A	Service valve connection (gas side)	φ15.88 (5/8") (Flare)
B	Service valve connection (liquid side)	φ9.52 (3/8") (Flare)
C	Pipe/cable draw-out hole	φ20×3places
D	Drain discharge hole	φ20×3places
E	Anchor bolt hole	M10×4places
F	Cable draw-out hole	φ30×3places

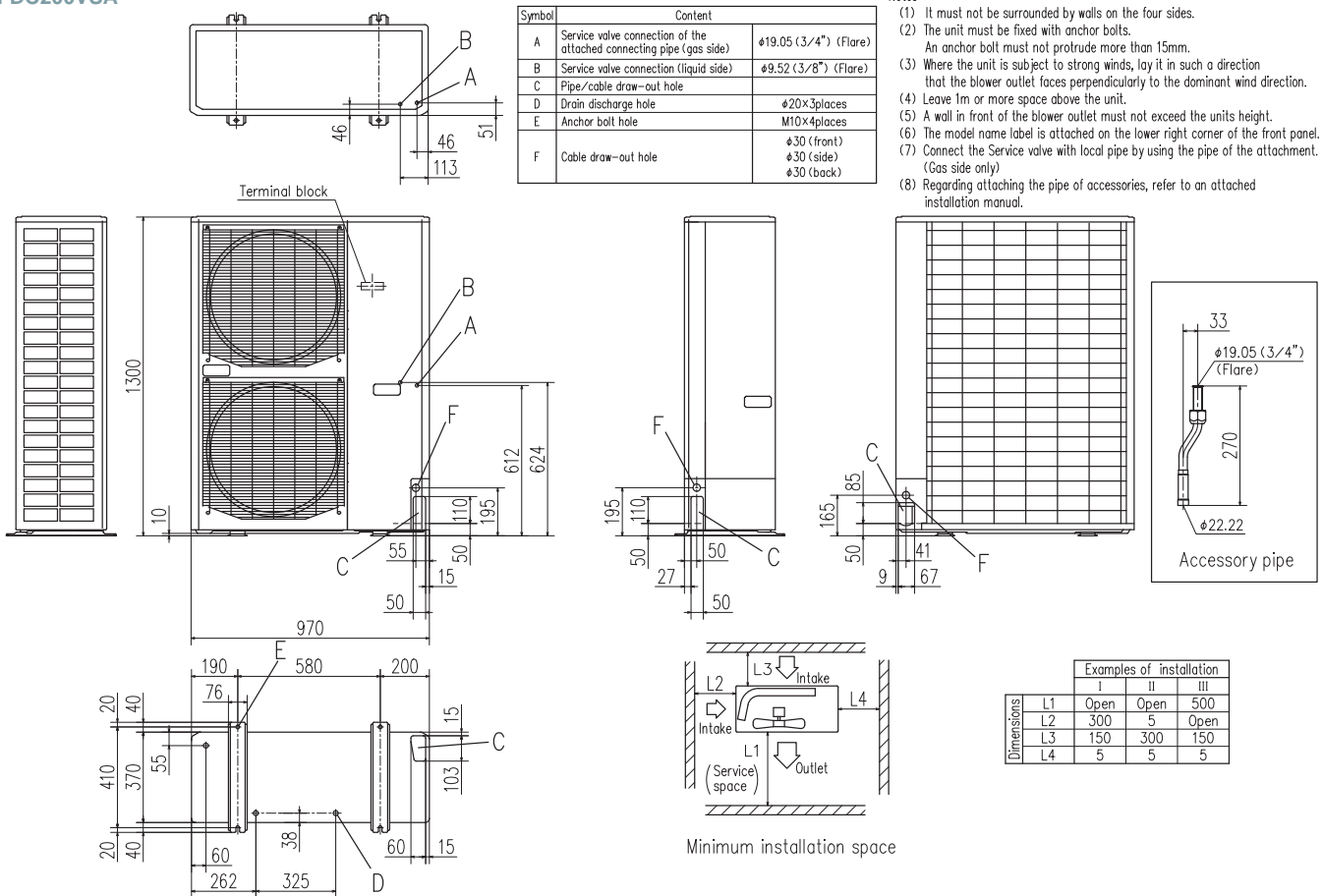
- Notes
- (1) It must not be surrounded by walls on the four sides.
  - (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
  - (3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
  - (4) Leave 1m or more space above the unit.
  - (5) A wall in front of the blower outlet must not exceed the units height.
  - (6) The model name label is attached on the lower right corner of the front panel.



FDC200VSA

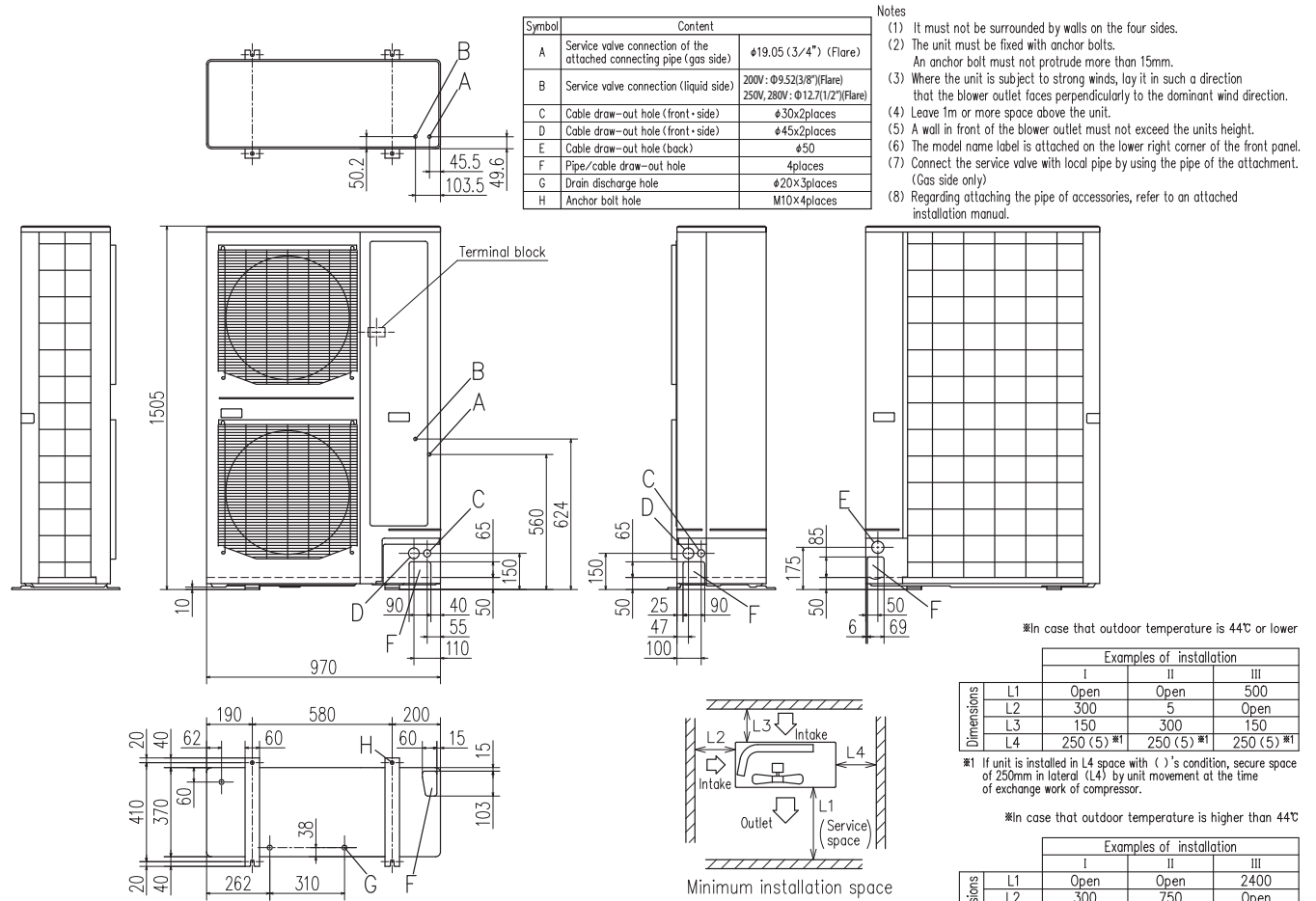
Symbol	Content	
A	Service valve connection of the attached connecting pipe (gas side)	φ19.05 (3/4") (Flare)
B	Service valve connection (liquid side)	φ9.52 (3/8") (Flare)
C	Pipe/cable draw-out hole	φ20×3places
D	Drain discharge hole	φ20×3places
E	Anchor bolt hole	M10×4places
F	Cable draw-out hole	φ30 (front) φ30 (side) φ30 (back)

- Notes
- (1) It must not be surrounded by walls on the four sides.
  - (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
  - (3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
  - (4) Leave 1m or more space above the unit.
  - (5) A wall in front of the blower outlet must not exceed the units height.
  - (6) The model name label is attached on the lower right corner of the front panel.
  - (7) Connect the Service valve with local pipe by using the pipe of the attachment. (Gas side only)
  - (8) Regarding attaching the pipe of accessories, refer to an attached installation manual.



# Outdoor Unit Dimensions (Unit:mm)

FDC200VSA-W, 250VSA-W, FDC280VSA-W  
FDC250VSA



\*In case that outdoor temperature is 44°C or lower

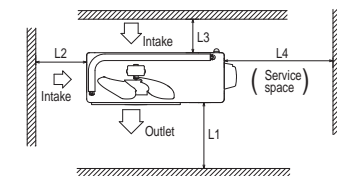
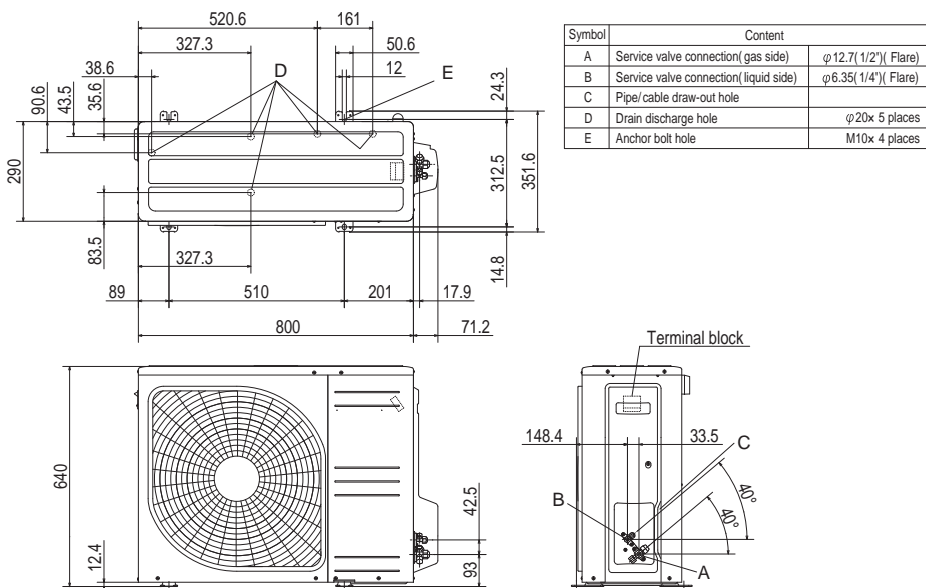
Examples of installation				
	I	II	III	
Dimensions	L1	Open	Open	500
	L2	300	5	Open
	L3	150	300	150
	L4	250 (5) *#1	250 (5) *#1	250 (5) *#1

\*#1 If unit is installed in L4 space with ( )'s condition, secure space of 250mm in lateral (L4) by unit movement at the time of exchange work of compressor.

\*In case that outdoor temperature is higher than 44°C

Examples of installation				
	I	II	III	
Dimensions	L1	Open	Open	2400
	L2	300	750	Open
	L3	300	300	300
	L4	750	300	1500

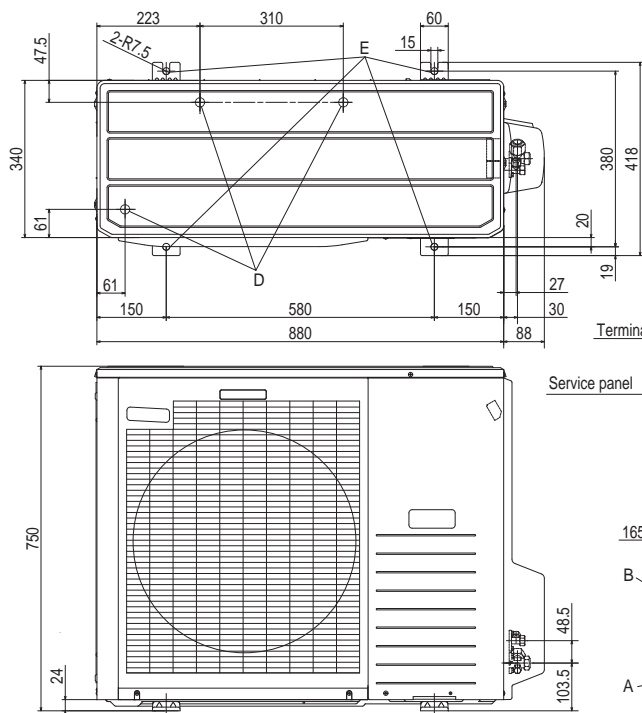
FDC71VNP-W  
FDC71VNP



Minimum installation space

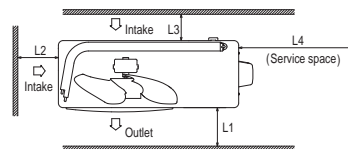
Examples of installation				
	I	II	III	IV
Dimensions	L1	Open	280	180
	L2	100	75	Open
	L3	100	80	80
	L4	250	Open	Open

FDC90VNP-W, 100VNP-W  
FDC90VNP1



Notes

- (1) It must not be surrounded by walls on four sides.
- (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
- (3) Where the unit is subjected to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
- (4) Leave 1m or more space above the unit.
- (5) A wall in front of the blower outlet must not exceed the unit's height.
- (6) The model name label is attached on the lower right corner of the front panel.

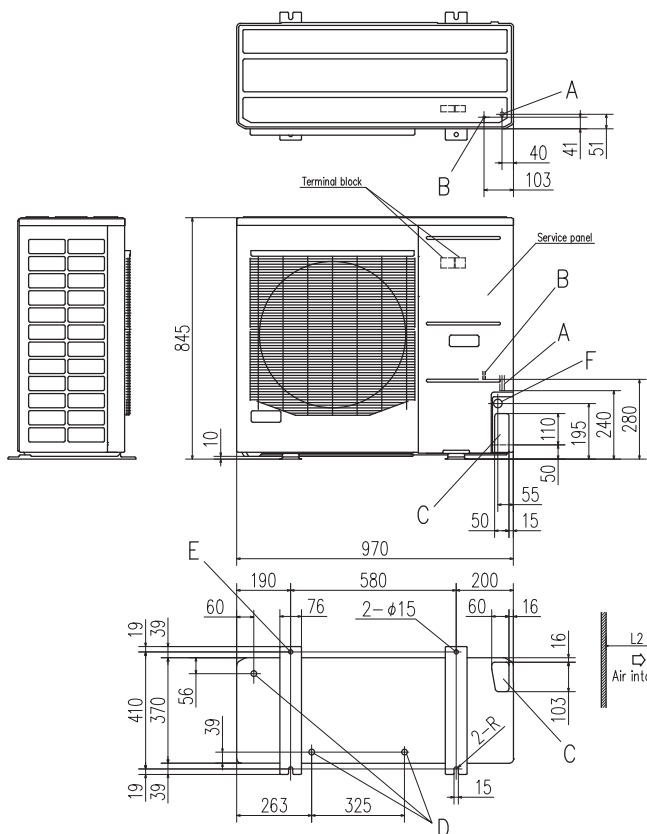


Minimum installation space

Examples of installation Dimensions	I	II	III
L1	Open	Open	500
L2	300	250	Open
L3	100	150	100
L4	250	250	250

Symbol	Content	
A	Service valve connection (gas side)	φ 15.88 (5/8") (Flare)
B	Service valve connection (liquid side)	φ 6.35 (1/4") (Flare)
C	Pipe / cable draw-out hole	
D	Drain discharge hole	φ20 x 3 places
E	Anchor bolt hole	M10 x 4 places

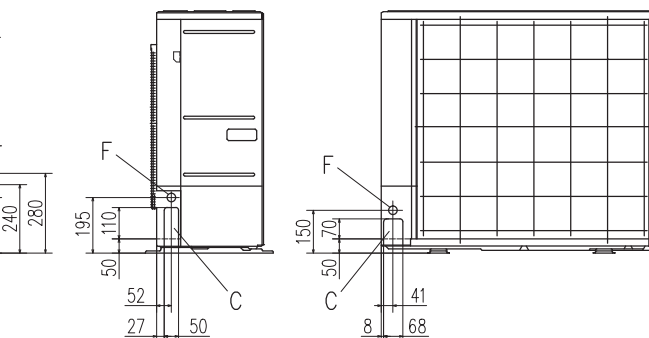
FDC125VNP-W  
FDC100VNP



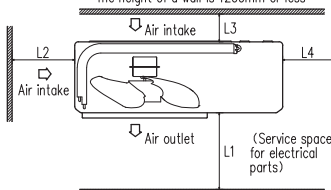
Symbol	Content	
A	Service valve connection (gas side)	φ15.88 (5/8") (Flare)
B	Service valve connection (liquid side)	φ9.52 (3/8") (Flare)
C	Pipe / cable draw-out hole	
D	Drain discharge hole	φ20x3 places
E	Anchor bolt hole	M10x4 places
F	Cable draw-out hole	φ30x3 places

Notes

- (1) It must not be surrounded by walls on the four sides.
- (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
- (3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet face is perpendicular to the dominant wind direction.
- (4) Leave 1m or more space above the unit.
- (5) A wall in front of the blower outlet must not exceed the unit's height.
- (6) The model name label is attached on the service panel.



The height of a wall is 1200mm or less



Minimum installation space

Examples of installation Dimensions	I	II	III
L1	Open	Open	500
L2	300	250	Open
L3	100	150	100
L4	250	250	250

# Control Systems

## Remote Control line up

wired	indoor unit	remote control	wireless	indoor unit	remote control	indoor unit	remote control
	All models	RC-EX3D		RC-E5	FDT	RCN-T-5BW-E2 RCN-T-5BB-E2	FDE
		RC-ES1	FDTc	RCN-TC-5AW-E3	FDU,FDUM,FDf	RCN-KIT4-E2	
		RCH-E3					

### Wired remote control

option

## RC-EX3D Intuitive touch controller with Liquid Crystal Display

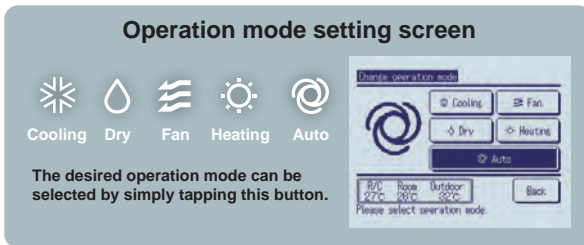
### User friendly

- The industry's first LCD panel with light tap operation has been introduced
- Simple interface with only three buttons

### Easy view

- Big LCD with 3.8 inch full dot display
- Back light function
- Multi-language display (9 languages)

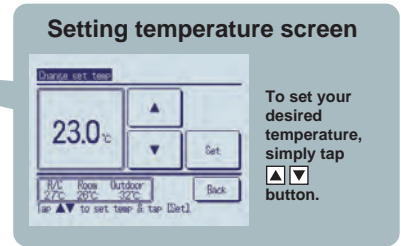
**Operation mode setting screen**



The desired operation mode can be selected by simply tapping this button.



**Setting temperature screen**



To set your desired temperature, simply tap **▲**/**▼** button.

### High power operation

- The highest capacity operation (Max 15 minutes)
- Increasing compressor speed
  - Increasing air flow volume

### Energy-saving operation

- Changes set temperature. At 28°C in cooling mode and 22°C in heating mode, 25°C in auto mode.
- Adjustment of operation based on outdoor temperature.

Run / Stop

## Main functions

	Function name	Description
Economy & Timer	<b>Energy-saving operation</b>	Since the capacity is controlled automatically based on the outdoor temperature, energy can be saved without losing comfort.
	<b>Sleep timer</b>	Specify the start and stop time for the operation. The selectable range of setting time is from 30 to 240 minutes (at 10-minute intervals).
	<b>Set temperature auto return</b>	The temperature automatically returns to the previously set temperature.
	<b>Set ON timer by hour</b>	When the predetermined time is reached, the air conditioner automatically turns on.
	<b>Set OFF timer by hour</b>	When the predetermined time is reached, the air conditioner automatically turns off.
	<b>Set ON timer by clock</b>	The air conditioner turns on at the set time.
	<b>Set OFF timer by clock</b>	The air conditioner turns off at the set time.
	<b>Weekly timer</b>	On or Off timer can be set on a weekly basis.
	<b>Peak-cut timer</b>	Capacity control can be set by using peak cut function on RC-EX3D for better energy saving. Five-step capacity control is available.
	<b>Home leave operation</b>	When the unit is not used for a long period, the room temperature is maintained at a moderate level, avoiding extremely hot or cool temperatures.
Comfort	<b>Big LCD &amp; Touch screen panel</b>	Large 3.8 inch screen has resulted in improved visibility and operability.
	<b>Easy modification of individual flap control</b>	User can visually confirm and set the direction of louvers using the visual display on the remote control.
	<b>Automatic fan speed *1</b>	The micro-computer automatically adjusts the airflow effectively to follow the changes of return air temperature.
	<b>Temp increment setting</b>	Temperature increments for changes in the set temperature can be adjusted.
	<b>Silent mode</b>	Set the period of time to operate the Outdoor unit with prioritizing the quietness.

	Function name	Description
Convenience	<b>Function switch *1</b>	The function switch allows user to select and set two functions among available functions.
	<b>Favourite setting *1</b>	Operation mode, set temperature, fan speed and air flow direction automatically adjust to the programmed favourite setting.
	<b>Adjusting Brightness of the operation lamp</b>	The brightness of the background light can be adjusted by 10 stages.
	<b>LCD contrast setting</b>	This function allows user to adjust LCD display contrast.
	<b>High power operation</b>	High Power Mode increases the unit operating ability for 15 minutes to quickly adjust the room temperature to a comfortable level.
	<b>Back light setting</b>	This convenient function allows user to see controls under low light conditions.
	<b>Administrator settings</b>	This function only allows specific individuals to operate the unit.
	<b>Setting temp range</b>	Limited range of setting temperature in the heating or the cooling operation can be selected.
	<b>External Input / Output Function</b>	The external input/output of indoor unit by remote controller can set input/output based on user needs.
	<b>Select the language</b>	Set the language to be displayed on the remote control.
Service	<b>USB connection (mini-B)</b>	This function allows batch input of schedule timer settings and other settings involving a large amount of data.
	<b>Error code display</b>	This function allows user to check information displayed when abnormal function of the unit occurs.
	<b>Operation data display</b>	Displays various types of air conditioner operation data in real time.
	<b>Contact company display</b>	Address of the service contact is displayed.
	<b>Filter sign</b>	Announces the due time for cleaning of the air filter.
	<b>Static pressure adjustment</b>	Allows user to adjust duct static pressure using the remote control.
	<b>Backup Control</b>	Allows for rotation control, fault backup control, and capacity backup control.

\*1 Cannot be used when a centralized control remote is connected.

Wired remote control

option

# RC-E5



The RC-E5 control enables extensive access to service and maintenance technical data combined with easy to use functions and a clear LCD display.

- Weekly timer function as standard
- Timer operation
- Run hour meters to facilitate maintenance checking
- Room temperature controlled by the remote control sensor
- Adjustable set temperature ranges

Simple remote control

option

# RCH-E3 (wired)



Designed specially for hotel rooms, the controller's buttons are limited only to the minimum required functions such as ON/OFF, mode, temperature setting and fan speed. It is really simple and easy to use.

\* RCH-E3 is not applicable to the Individual flap control system. When RCH-E3 is used, the fan has 3 speed settings (Hi-Me-Lo) only.

Up to 16 units

It can control up to 16 indoor units, by pressing the AIR CON No. button.

AUTO restart

This function allows starting the air conditioner automatically when power supply is restored after power failure or by turning on the power switch.

Simple remote control

option

# RC-ES1 (wired) **New!**



- Simple and sophisticated design
- Compact size (86mm×86mm)
- Remote control with Bluetooth® wireless technology

Wireless connection



Remote control with Bluetooth® wireless technology. Easy set-up of indoor units. Notifications of abnormal conditions or operational data from the remote control will be sent to your smartphone.

Wireless remote control

option

## RCN-T-5BW-E2 RCN-T-5BB-E2



For wireless control simply insert the infrared receiver kit on a corner of the panel.

\* Wireless remote control is not applicable to the Individual flap control system.

## RCN-TC-5AW-E3



## RCN-KIT4-E2



## RCN-E-E3



Thermistor

option

# SC-THB-E3

In case the sensor integrated in the indoor unit or in the remote controller is unable to sense the room temperature correctly, or an individual controller in each room is not required but a temperature sensor is (as when a central control system is in place), install SC-THB-E3 in an adequate location in the room.



# Air Handling Unit Interface

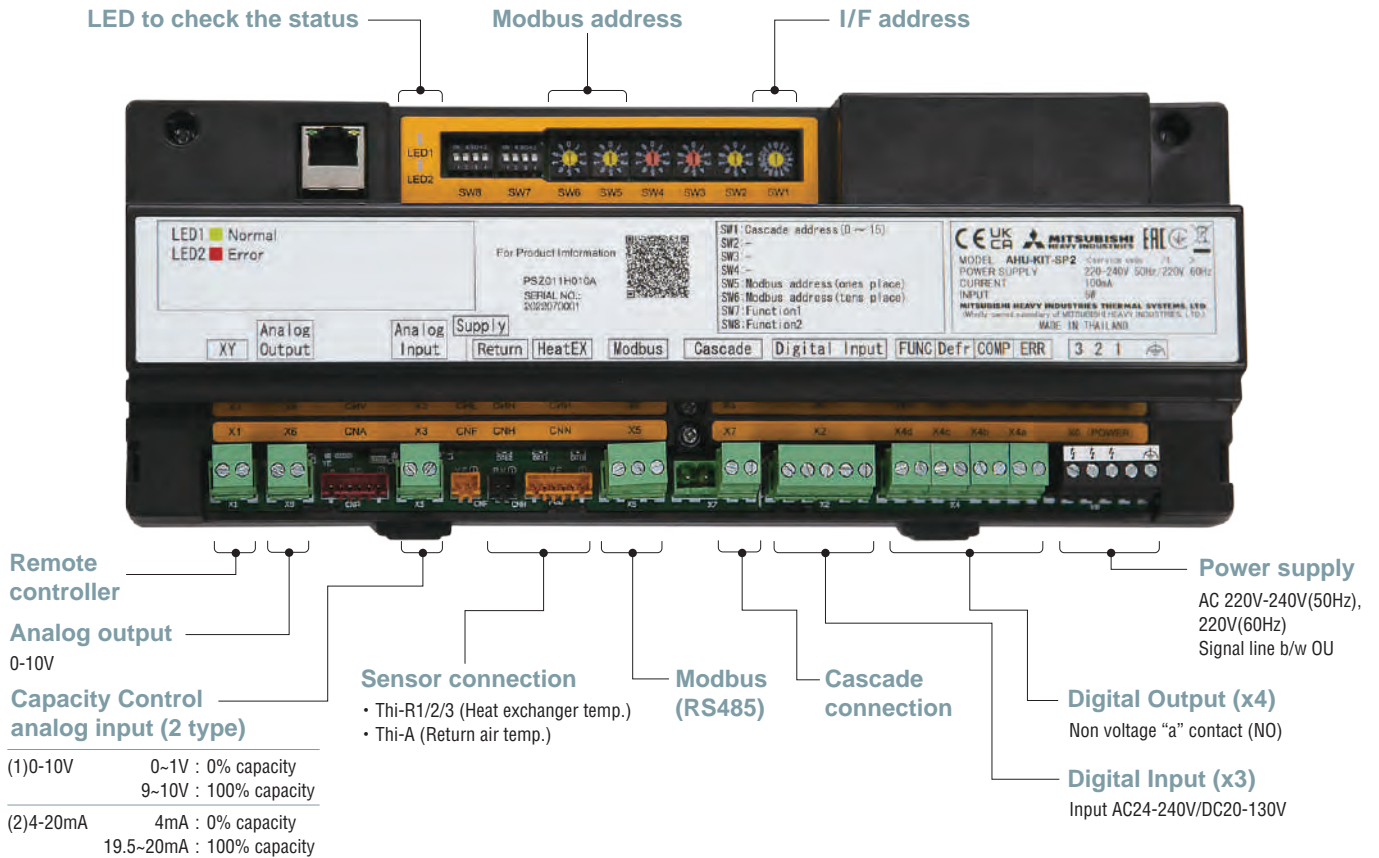
## AHU-KIT-SP2

The AHU controller will function as an interface between MHI's PAC outdoor units and locally produced heat exchanger for Air Handling Unit (AHU).



- Compact AHU interface for MHI's Split system
- 0-10V/4-20mA capacity control
- Various external I/O
- Modbus connection
- Cascade control
- Set temperature control



### Main components



### Main functions

Model		AHU-KIT-SP2
<b>Size</b>		W290 x H109.5x D57mm
<b>External Input</b>	Capacity control	○ 0-10V DC, 4-20mA(0-100%)
	Cooling / Heating	○
	Operation On/Off	○
	Emergency stop	○
<b>External Output</b>	Comp On/Off	○
	Run/Stop	○
	Defrost On/Off	○
	Error	○
<b>Modbus (RS-485)</b>		○
<b>Cascade connection</b>		○ Max 16
<b>Standard</b>		EN60335-1

### Compatibility PAC & RAC outdoor unit will be in scope.

Capacity	R32 	R410A 
<b>Small</b>	SRC40/50/60ZSX-W1,W3	SRC40/50/60ZSX-S
	FDC71VNX-W	FDC71VNX
<b>Medium</b>	FDC100/125/140VNA-W	FDC100/125/140VNA
	FDC100/125/140VSA-W	FDC100/125/140VSA
	FDC100/125/140VNX-W	FDC100/125/140VNX
	FDC100/125/140VSX-W	FDC100/125/140VSX
<b>Large</b>	FDC200/250/280VSA-W	FDC200/250VSA

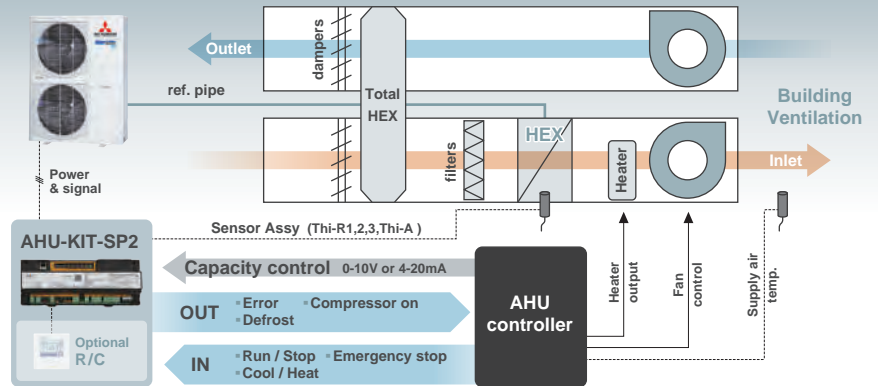


### System Examples & Advantages

#### Ex1. General AHU

- 0-10V/4-20mA capacity control
- Various I/O for better control
- R/C can be removed

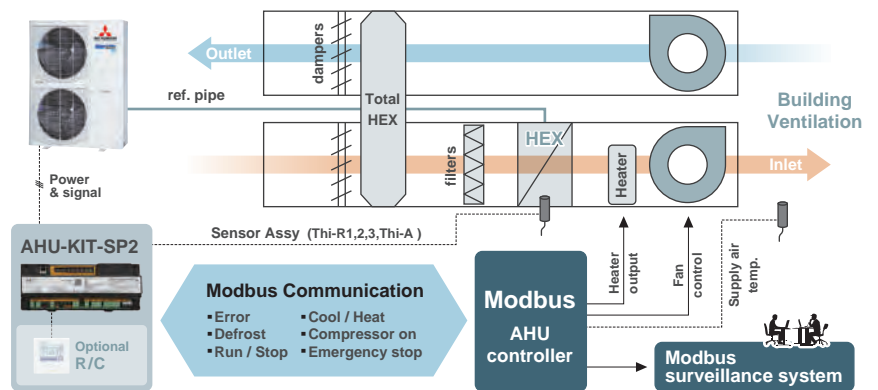
Compatible with market standard AHU controller.  
Provide wide flexibility for AHU solution.



#### Ex2. Modbus AHU

- Modbus connection
- Same control as external I/O

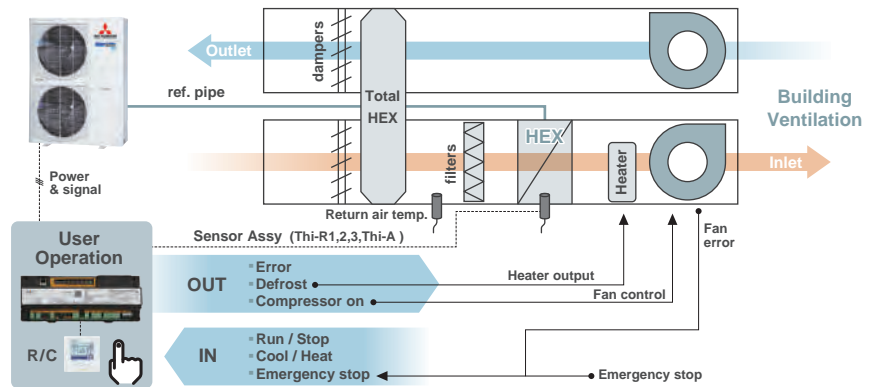
BMS connectability without any extra device.



#### Ex3. Simple AHU

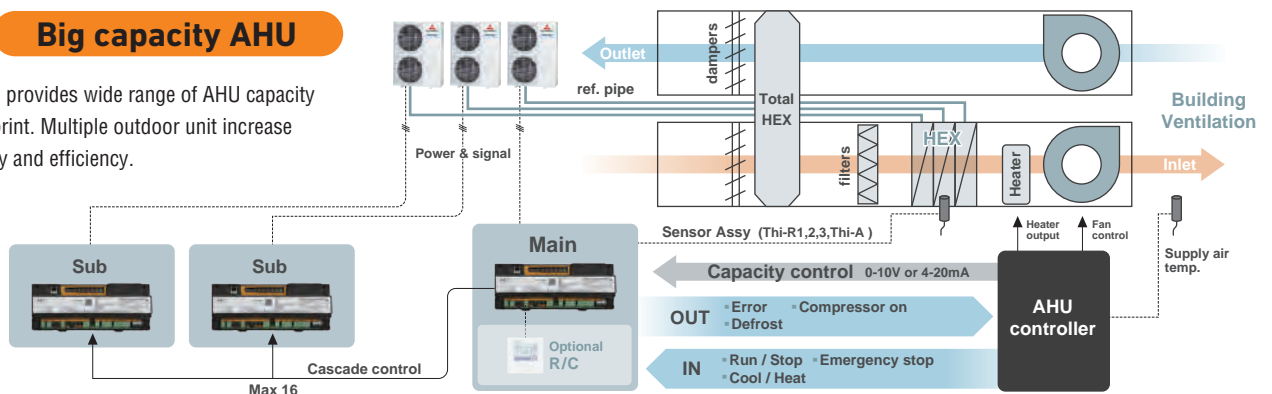
- Remote controller connection
- Adequate external input/output

Simple stand-alone AHU control by set temperature control from RC.



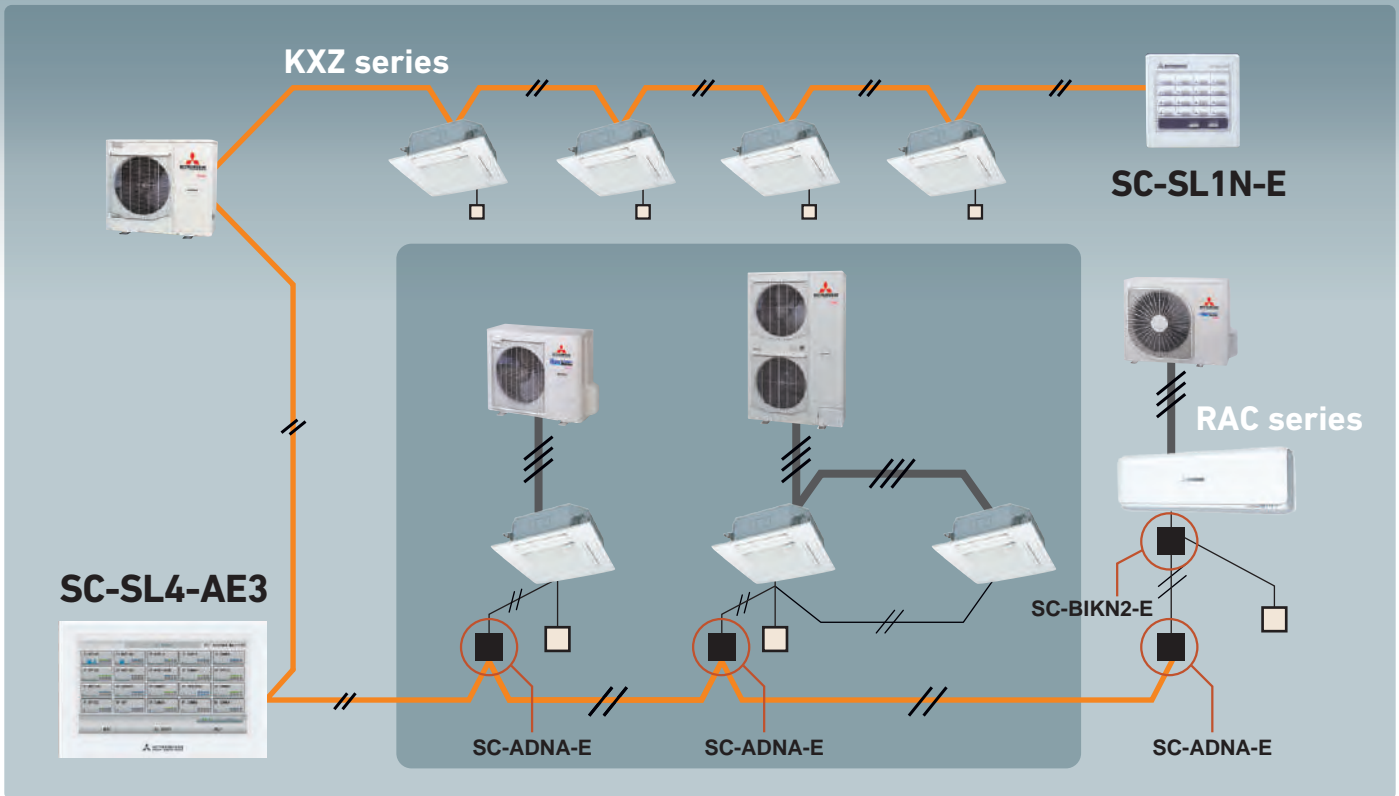
#### Ex4. Big capacity AHU

Cascade control provides wide range of AHU capacity with small footprint. Multiple outdoor unit increase system reliability and efficiency.



# SUPERLINK-II

## - Control Systems -

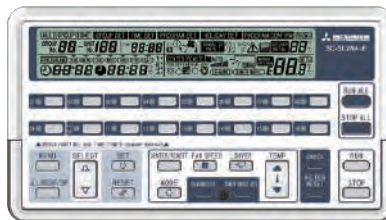


## Central Control



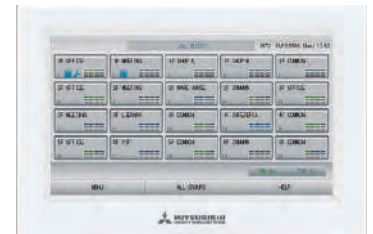
### SC-SL1N-E

Start/stop control of up to 16 indoor units is possible either individually or collectively. With simple operations, you can achieve centralized control.



### SC-SL2NA-E

Centralized control of up to 64 indoor units. Including weekly timer function as standard.



### SC-SL4-AE3, BE3

Easy operation thanks to with a large colour LCD and touch panel. Up to 128 indoor units can be controlled, when SUPERLINK-II systems are connected.

## Building Management Systems

Production by order



### SC-WBGW256\*

#### WEB & BACnet Gateway

SC-WBGW256, up to 256 cells (some cells can have two or more indoor units and total number of indoor units can be up to 256 units) are controlled from the Internet Explorer and centrally from Building Management Systems.

Users can manage up to 1024 units by connecting the four devices !!

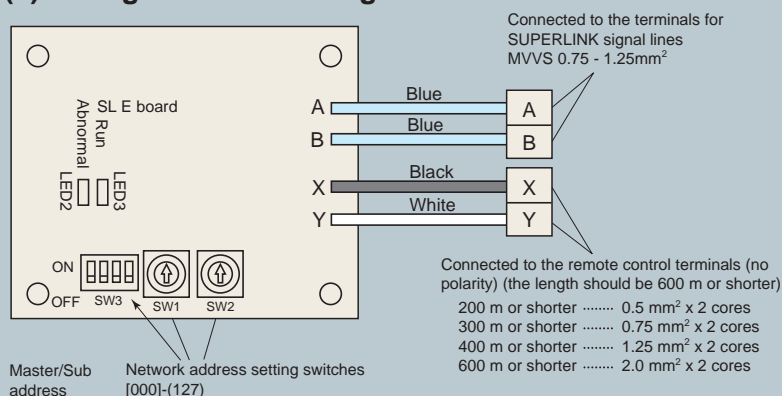
\* Additional engineering service is required. Please consult your dealer when using these system.

# SUPERLINK E BOARD (SC-ADNA-E)

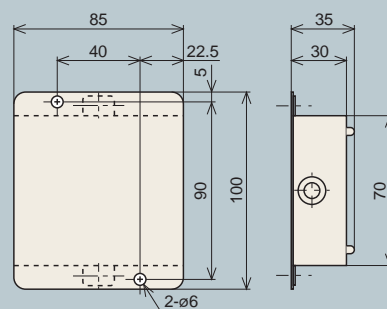
This board is used when conducting control of the single package (wired remote control unit) 1-type series using a network option (SC-SL1N-E, SC-SL2NA-E, etc).

- (1) Functions**
- (a) Transmits the settings from the network option to the indoor units.
  - (b) Returns the priority indoor unit data in response to a data request from the network option.
  - (c) Inspects the error status of connected indoor units and transmits the inspection codes to the network option.
  - (d) A maximum of 16 units can be controlled (if in the same operation mode).

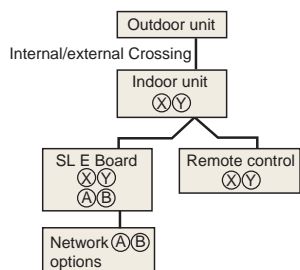
## (2) Wiring connection diagram



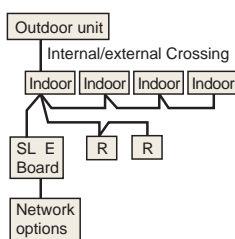
## (3) Metal box dimension (unit:mm)



### Basic Connections

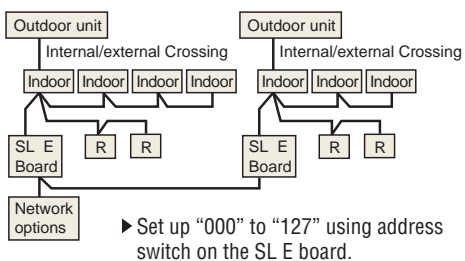


### Plural Controls by Multiple Remote Controls. Mixture of Multiple Units

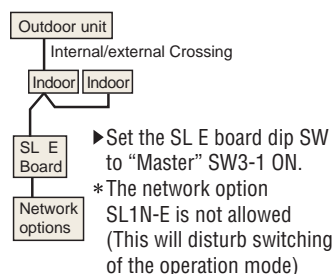


- Transmit the information of plural "Master" units to the network.
- Transmit the abnormalities of the "Slave" units to the network.
- ▶ Setting the plural "Master/Slave" units with the dip SW of the printed circuit board.
- ▶ Setting the "Master/Slave" remote controls with the dip SW of the remote control board.

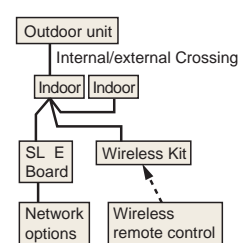
### Plural Controls by Multiple Remote Controls. Mixture of Multiple Units



### Without Remote Control

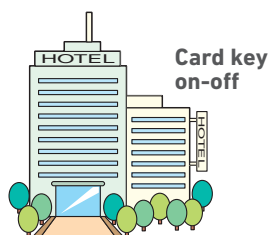


### Wireless Kit



## External switch connection CNT, CNTA

All indoor units are equipped with an additional connection point CnT to connect indoor units to an external ON/OFF switch; e.g. time clock, fire alarm, etc.

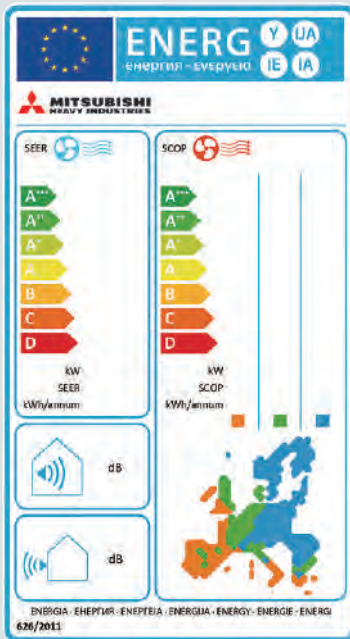


# Energy Efficient and Environmentally Conscious

Several radical design changes and engineering developments have brought about a vast improvement in energy efficiency and environmental protection.

## ENERGY LABEL

SEER and SCOP is defined in European regulations listed below.



No.626/2011 of 4 May 2011:  
energy labeling of air-conditioners  
(below cooling capacity 12kW).

No.206/2012 of 6 March 2012:  
requirement for air-conditioners and comfort fans.

Seasonal efficiency is the new way of rating the true efficiency of heating and cooling products over an entire year.

Set by the EU's new regulation implementing Eco-Design Directive for Energy related Product (ErP) which specifies the minimum efficiency of air-conditioners manufacturers must integrate into their products.

The new Seasonal Efficiency rating system that must be used for heating and cooling by all manufacturers are;

**SEER - Seasonal Efficiency Ratio (value in cooling)**  
**SCOP - Seasonal Coefficient of Performance (value in heating)**

The new rating system will indicate the true efficiency of the energy using product at specified condition.

## Employment of lead-free solder

### Adapted to RoHS directive

#### RoHS:Restriction of Hazardous substances

In order to avoid the release of hazardous substances into the environments, all models have utilised lead-free solder application. It has been considered to be difficult to use lead-free solder for practical applications because it requires higher solder temperatures at assembly, which can jeopardize reliability. However our PbF soldering method can produce a higher quality lead-free printed circuit board.

## Employment of R32 R410A

All models use refrigerant R32 or R410A characterized by the ozone depletion coefficient being 0.

## Excellent Energy Saving

High performance and excellent energy savings are achieved at the same time by heat exchanger's increased capacity and employment of high efficiency DC motor.

Indoor unit	FDT40VH	FDT50VH	FDT60VH	FDT71VH	FDT100VH	FDT100VH	FDT40VHx2	FDT50VHx2	
Outdoor unit	SRC40ZSX-W1	SRC50ZSX-W3	SRC60ZSX-W3	FDC71VNX-W	FDC100VNX-W	FDC100VSA-W	FDT71VNX-W	FDC100VNX-W	
Energy class (cooling/heating)	A+++/A++	A++/A++	A+++/A++	A++/A++	A+/A+	A++/A+	A+++/A++	A++/A+	
SEER	8.63	7.93	8.74	7.60	8.00	8.00	7.60	8.24	
SCOP (Average climate)	4.62	4.63	5.00	4.61	4.44	4.44	4.66	4.24	
Pdesign (cooling/heating (@-10°C))	kW	4.0/3.9	5.0/4.0	5.6/5.2	7.1/5.8	10.0/11.2	10.0/11.2	7.1/5.8	10.0/11.2
Annual electricity consumption (cooling/heating)	kWh/a	163/1167	221/1210	225/1455	327/1762	438/3534	438/3534	327/1742	425/3700
Refrigerant	GWP	R32/675							
	charge kg/TCO <sub>2</sub> e	1.30/0.878		2.75/1.86		4.0/2.7		2.75/1.86	4.0/2.7
Designated heating season	Average								

Indoor unit	FDT50VHx2	FDT40VH	FDT50VH	FDT60VH	FDT71VH	FDT100VH	FDT100VH	FDT40VHx2	
Outdoor unit	FDC100VNX-W	SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX	FDC100VNX	FDC100VSA-W	FDC71VNX	
Energy class (cooling/heating)	A+/A+	A+++/A+	A+++/A++	A++/A++	A+/A+	A+/A+	A+/A+	A+/A+	
SEER	8.24	8.51	7.82	8.26	5.72	5.90	5.90	5.77	
SCOP (Average climate)	4.24	4.47	4.61	5.00	4.34	4.32	4.32	4.34	
Pdesign (cooling/heating (@-10°C))	kW	10.0/11.2	4.0/3.8	5.0/4.1	5.6/4.7	7.1/5.8	10.0/11.2	10.0/11.2	7.1/5.8
Annual electricity consumption (cooling/heating)	kWh/a	425/3700	165/1192	224/1246	238/1316	435/1873	594/3634	594/3634	431/1873
Refrigerant	GWP	R410A/2088							
	charge kg/TCO <sub>2</sub> e	4.0/2.7	1.5/3.132		1.5/3.132		2.95/6.160		4.5/9.396
Designated heating season	Average								

Indoor unit	FDT50VHx2	FDT50VHx2	FDT100VH	FDT100VH	FDT50VHx2	FDT50VHx2	FDT100VH	FDT100VH	
Outdoor unit	FDC100VNX	FDC100VSA-W	FDC100VNA-W	FDC100VSA-W	FDC100VNA-W	FDC100VSA-W	FDC100VNA	FDC100VSA	
Energy class (cooling/heating)	A+/A+	A+/A+	A+++/A++	A++/A++	A+/A+	A+++/A+	A+++/A+	A+++/A+	
SEER	5.92	5.92	7.13	7.13	7.41	7.41	6.78	6.78	
SCOP (Average climate)	4.16	4.16	4.60	4.60	4.47	4.47	4.52	4.52	
Pdesign (cooling/heating (@-10°C))	kW	10.0/11.2	10.0/8.5	10.0/8.5	10.0/8.5	10.0/8.5	10.0/8.5	10.0/8.5	
Annual electricity consumption (cooling/heating)	kWh/a	592/3772	592/3772	491/2590	491/2590	473/2665	473/2665	516/2633	516/2633
Refrigerant	GWP	R410A/2088		R32/675			R410A/2088		
	charge kg/TCO <sub>2</sub> e	4.5/9.396		3.3/2.228			3.8/7.934		
Designated heating season	Average								

- Refrigerant contained in the products is a fluorinated greenhouse gas listed in Regulation (EU) No 517/2014.
- SEER/SCOP are based on EN14825.2016 and Commission regulation(EU) No.2016/2281. Temperature conditions for calculating SCOP are based on "Average climate".
- 'tonne(s) of CO<sub>2</sub> equivalent' means a quantity of greenhouse gases- expressed as the product of the weight of the greenhouse gases in metric tonnes and of their global warming potential.

Indoor unit	FDT50VHx2	FDT50VHx2	FDT71VH	FDT100VH	FDT100VH	FDT100VH	FDT71VH	FDT100VH	FDT100VH
Outdoor unit	FDC100VNA	FDC100VSA	FDC71VNP-W	FDC90VNP-W	FDC100VNP-W	FDC71VNP	FDC90VNP1	FDC100VNP	FDC100VNP
Energy class (cooling/heating)	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+
SEER	6.89	6.89	6.34	7.10	7.08	6.14	6.78	6.78	6.78
SCOP (Average climate)	4.47	4.47	4.38	4.56	4.53	4.27	4.12	4.53	4.53
Pdesign (cooling/heating (@-10°C))	kW	10.0/8.5	10.0/8.5	7.10/5.70	9.0/6.0	10.0/6.4	7.1/5.7	9.0/8.1	10.0/8.1
Annual electricity consumption (cooling/heating)	kWh/a	508/2665	508/2665	393/1822	444/1842	495/1977	405/1867	465/2754	517/2508
Refrigerant	GWP	R410A/2088		R32/675			R410A/2088		
	charge kg/TCO <sub>2</sub> e	3.8/7.934		1.30/0.878	1.70/1.148		1.6/3.341	2.1/4.385	2.55/5.324
Designated heating season	Average								

Indoor unit	FDC40VH	FDC50VH	FDC60VH	FDC40VHx2	FDC50VHx2	FDC50VHx2	FDC40VH	FDC50VH	
Outdoor unit	SRC40ZSX-W1	SRC50ZSX-W3	SRC60ZSX-W3	FDC71VNX-W	FDC100VNX-W	FDC100VNX-W	SRC40ZSX-S	SRC50ZSX-S	
Energy class (cooling/heating)	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	
SEER	6.94	6.52	6.45	6.70	6.58	6.58	6.93	6.49	
SCOP (Average climate)	4.37	4.30	4.10	4.40	4.16	4.16	4.37	4.30	
Pdesign (cooling/heating (@-10°C))	kW	4.0/4.0	5.0/4.3	5.6/5.1	7.1/6.0	10.0/11.2	10.0/11.2	4.0/4.0	5.0/4.3
Annual electricity consumption (cooling/heating)	kWh/a	202/1283	269/1401	304/1744	371/1911	532/3772	532/3772	202/1281	270/1402
Refrigerant	GWP	R32/675			R410A/2088			R410A/2088	
	charge kg/TCO <sub>2</sub> e	1.30/0.878			2.75/1.86		4.0/2.7		1.5/3.132
Designated heating season	Average								

Indoor unit	FDC60VH	FDC40VHx2	FDC50VHx2	FDC50VHx2	FDC50VHx2	FDC50VHx2	FDC50VHx2	FDC50VHx2	
Outdoor unit	SRC60ZSX-S	FDC71VNX	FDC100VNX	FDC100VNX	FDC100VNA-W	FDC100VNA-W	FDC100VNA	FDC100VSA	
Energy class (cooling/heating)	A++/A+	A/A+	A/A	A/A	A++/A+	A++/A+	A+/A+	A+/A+	
SEER	6.39	5.50	5.56	5.56	6.17	6.17	6.00	6.00	
SCOP (Average climate)	4.09	4.05	3.87	3.87	4.38	4.38	4.38	4.38	
Pdesign (cooling/heating (@-10°C))	kW	5.6/5.4	7.1/6.0	10.0/10.8	10.0/10.8	10.0/8.5	10.0/8.5	10.0/8.4	10.0/8.4
Annual electricity consumption (cooling/heating)	kWh/a	307/1848	453/2077	630/3910	630/3910	567/2715	584/2682	584/2682	584/2682
Refrigerant	GWP	R410A/2088			R32/675			R410A/2088	
	charge kg/TCO <sub>2</sub> e	1.5/3.132	2.95/6.160	4.5/9.396		3.3/2.228		3.8/7.934	
Designated heating season	Average								

Indoor unit	FDU71VH	FDU100VH	FDU100VH	FDU71VH	FDU100VH	FDU100VH	FDU100VH	FDU100VH	
Outdoor unit	FDC71VNX-W	FDC100VNX-W	FDC100VNX-W	FDC71VNX	FDC100VNX	FDC100VNX	FDC100VNA-W	FDC100VSA-W	
Energy class (cooling/heating)	A++/A+	A++/A+	A++/A+	A/A	A/A+	A/A+	A++/A+	A++/A+	
SEER	6.89	6.29	6.29	5.24	5.22	5.19	6.11	6.11	
SCOP (Average climate)	4.47	4.13	4.13	3.90	4.10	4.10	4.19	4.19	
Pdesign (cooling/heating (@-10°C))	kW	7.1/6.0	10.0/11.2	10.0/11.2	7.1/7.0	10.0/13.0	10.0/13.0	10.0/8.5	10.0/8.5
Annual electricity consumption (cooling/heating)	kWh/a	361/1878	557/3800	557/3800	475/2516	670/4441	675/4443	574/2843	574/2843
Refrigerant	GWP	R32/675			R410A/2088			R32/675	
	charge kg/TCO <sub>2</sub> e	2.75/1.86	4.0/2.7		2.95/6.160	4.5/9.396		3.3/2.228	
Designated heating season	Average								

Indoor unit	FDU100VH	FDU100VH	FDU71VH	FDU100VH	FDU100VH	FDU71VH	FDU100VH	FDU100VH	
Outdoor unit	FDC100VNA	FDC100VSA	FDC71VNP-W	FDC90VNP-W	FDC100VNP-W	FDC71VNP	FDC90VNP1	FDC100VNP	
Energy class (cooling/heating)	A++/A+	A++/A+	A+/A+	A++/A+	A++/A+	A+/A+	A++/A	A++/A+	
SEER	6.11	6.11	5.86	6.66	6.11	5.73	6.56	6.36	
SCOP (Average climate)	4.19	4.19	4.12	4.22	4.13	4.00	3.98	4.13	
Pdesign (cooling/heating (@-10°C))	kW	10.0/8.5	10.0/8.5	7.10/5.70	9.0/6.0	10.0/6.4	7.1/5.7	9.0/8.1	10.0/8.1
Annual electricity consumption (cooling/heating)	kWh/a	573/2844	573/2844	425/1937	474/1990	573/2169	434/1997	480/2850	551/2748
Refrigerant	GWP	R410A/2088		R32/675			R410A/2088		
	charge kg/TCO <sub>2</sub> e	3.8/7.934		1.30/0.878	1.7/1.148		1.6/3.341	2.1/4.385	2.55/5.324
Designated heating season	Average								

Indoor unit	FDUM40VH	FDUM50VH	FDUM60VH	FDUM71VH	FDUM100VH	FDUM100VH	FDUM40VHx2	FDUM50VHx2	
Outdoor unit	SRC40ZSX-W1	SRC50ZSX-W3	SRC60ZSX-W3	FDC71VNX-W	FDC100VNX-W	FDC100VNX-W	FDC71VNX-W	FDC100VNX-W	
Energy class (cooling/heating)	A++/A	A+/A	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A	
SEER	6.11	5.82	6.43	6.89	6.29	6.29	6.38	6.36	
SCOP (Average climate)	3.81	3.89	4.37	4.45	4.13	4.13	4.15	3.88	
Pdesign (cooling/heating (@-10°C))	kW	4.0/3.0	5.0/3.7	5.6/4.7	7.1/6.0	10.0/11.2	10.0/11.2	7.1/6.0	10.0/10.0
Annual electricity consumption (cooling/heating)	kWh/a	230/1102	301/1332	305/1508	361/1878	557/3800	557/3800	390/2025	550/3605
Refrigerant	GWP	R32/675			R410A/2088				
	charge kg/TCO <sub>2</sub> e	1.30/0.878			2.75/1.86	4.0/2.7		2.75/1.86	4.0/2.7
Designated heating season	Average								

Indoor unit	FDUM50VHx2	FDUM40VH	FDUM50VH	FDUM60VH	FDUM71VH	FDUM100VH	FDUM100VH	FDUM40VHx2	
Outdoor unit	FDC100VNX-W	SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX	FDC100VNX	FDC100VNX	FDC71VNX	
Energy class (cooling/heating)	A++/A	A+/A+	A+/A+	A++/A+	A/A	A/A+	A/A+	A+/A+	
SEER	6.36	6.01	5.68	6.42	5.24	5.22	5.19	5.61	
SCOP (Average climate)	3.88	4.15	4.36	4.37	3.90	4.10	4.10	4.05	
Pdesign (cooling/heating (@-10°C))	kW	10.0/10.0	4.0/3.5	5.0/4.3	5.6/5.4	7.1/7.0	10.0/13.0	10.0/13.0	7.1/7.0
Annual electricity consumption (cooling/heating)	kWh/a	550/3605	233/1182	309/1380	306/1731	475/2516	670/4441	675/4444	444/2419
Refrigerant	GWP	R32/675			R410A/2088				
	charge kg/TCO <sub>2</sub> e	4.0/2.7	1.5/3.132			2.95/6.160		4.5/9.396	
Designated heating season	Average								

# Energy Efficient and Environmentally Conscious

Indoor unit	FDM50VHx2	FDM50VHx2	FDM100VH	FDM100VH	FDM50VHx2	FDM50VHx2	FDM100VH	FDM100VH
Outdoor unit	FDC100VNX	FDC100VXS	FDC100VNA-W	FDC100VSA-W	FDC100VNA-W	FDC100VSA-W	FDC100VNA	FDC100VSA
Energy class (cooling/heating)	A/A	A/A	A++/A+	A++/A+	A+/A+	A+/A+	A++/A+	A++/A+
SEER	5.14	5.11	6.11	6.11	5.82	5.82	6.11	6.11
SCOP (Average climate)	3.88	3.87	4.19	4.19	4.00	4.00	4.19	4.19
Pdesign (cooling/heating (@-10°C))	kW	10.0/10.0	10.0/10.0	10.0/8.5	10.0/8.5	10.0/8.5	10.0/8.5	10.0/8.5
Annual electricity consumption (cooling/heating)	kWh/a	681/3606	685/3618	574/2843	574/2843	602/2974	573/2844	573/2844
Refrigerant	GWP	R410A/2088			R32/675			R410A/2088
	charge kg/TCO <sub>2</sub> e	4.5/9.396			3.3/2.228			3.8/7.934
Designated heating season	Average							

Indoor unit	FDM50VHx2	FDM50VHx2	FDM71VH	FDM100VH	FDM100VH	FDM71VH	FDM100VH	FDM100VH
Outdoor unit	FDC100VNA	FDC100VSA	FDC71VNP-W	FDC90VNP-W	FDC100VNP-W	FDC71VNP	FDC90VNP1	FDC100VNP
Energy class (cooling/heating)	A/A	A/A	A+/A+	A++/A+	A+/A+	A+/A+	A+/A+	A+/A+
SEER	5.50	5.50	5.86	6.65	6.11	5.73	6.56	6.36
SCOP (Average climate)	3.94	3.94	4.12	4.22	4.13	4.00	3.98	4.13
Pdesign (cooling/heating (@-10°C))	kW	10.0/8.5	10.0/8.5	7.10/5.70	9.0/6.0	10.0/6.4	7.1/5.7	9.0/8.1
Annual electricity consumption (cooling/heating)	kWh/a	637/3024	637/3024	425/1937	474/1990	573/2169	434/1997	480/2850
Refrigerant	GWP	R410A/2088		R32/675			R410A/2088	
	charge kg/TCO <sub>2</sub> e	3.8/7.934		1.3/0.878	1.7/1.148		1.6/3.341	2.1/4.385
Designated heating season	Average							

Indoor unit	SRK71ZR-W(F)	SRK100ZR-W(F)	SRK100ZR-W(F)	SRK50ZSX-Wx2	SRK50ZSX-Wx2	SRK50ZSX-Wx2	SRK50ZSX-Wx2	SRK100ZR-W(F)
Outdoor unit	FDC71VNX-W	FDC100VNX-W	FDC100VXS-W	FDC100VNX-W	FDC100VXS-W	FDC100VNX	FDC100VXS	FDC100VNA-W
Energy class (cooling/heating)	A++/A+	A+/A+	A+/A+	A++/A+	A+/A+	A+/A+	A+/A+	A+/A+
SEER	6.80	6.54	6.54	7.66	7.66	6.11	6.11	6.13
SCOP (Average climate)	4.56	4.01	4.01	4.25	4.25	4.16	4.16	4.33
Pdesign (cooling/heating (@-10°C))	kW	7.1/5.8	10.0/10.5	10.0/10.5	10.0/11.2	10.0/11.2	10.0/10.4	10.0/8.5
Annual electricity consumption (cooling/heating)	kWh/a	366/1782	535/3671	535/3671	457/3691	457/3691	574/3504	574/3504
Refrigerant	GWP	R32/675			R410A/2088			R32/675
	charge kg/TCO <sub>2</sub> e	2.75/1.86	4.0/2.7		4.5/9.396			3.3/2.228
Designated heating season	Average							

Indoor unit	SRK100ZR-W(F)	SRK50ZSX-Wx2	SRK50ZSX-Wx2	SRK100ZR-W	SRK100ZR-W	SRK71ZR-W(F)	SRK100ZR-W(F)	SRK100ZR-W
Outdoor unit	FDC100VSA-W	FDC100VNA-W	FDC100VSA-W	FDC100VNA	FDC100VSA	FDC71VNP-W	FDC100VNP-W	FDC100VNP
Energy class (cooling/heating)	A++/A+	A+/A+	A+/A+	A+/A+	A+/A+	A+/A+	A+/A+	A+/A+
SEER	6.13	7.05	7.05	6.26	6.26	6.75	6.11	6.60
SCOP (Average climate)	4.33	4.47	4.47	4.33	4.33	4.55	4.14	4.40
Pdesign (cooling/heating (@-10°C))	kW	10.0/8.5	10.0/8.5	10.0/8.5	10.0/8.5	7.10/5.70	9.6/6.0	10.0/7.2
Annual electricity consumption (cooling/heating)	kWh/a	571/2746	497/2661	497/2661	560/2750	560/2750	369/1756	551/2028
Refrigerant	GWP	R32/675		R410A/2088			R32/675	
	charge kg/TCO <sub>2</sub> e	3.3/2.228		3.8/7.934			1.3/0.878	1.7/1.148
Designated heating season	Average							

Indoor unit	FDE40VH	FDE50VH	FDE60VH	FDE71VH	FDE100VH	FDE100VH	FDE40VHx2	FDE50VHx2
Outdoor unit	SRC40ZSX-W1	SRC50ZSX-W3	SRC60ZSX-W3	FDC71VNX-W	FDC100VNX-W	FDC100VXS-W	FDC71VNX-W	FDC100VNX-W
Energy class (cooling/heating)	A++/A+	A+/A+	A+/A+	A++/A+	A+/A+	A+/A+	A+/A+	A+/A+
SEER	6.46	6.15	6.72	6.58	7.00	7.00	6.48	6.76
SCOP (Average climate)	4.02	4.07	4.41	4.45	4.24	4.24	4.49	4.00
Pdesign (cooling/heating (@-10°C))	kW	4.0/3.0	5.0/3.8	5.6/4.5	7.1/6.0	10.0/11.2	10.0/11.2	7.1/6.0
Annual electricity consumption (cooling/heating)	kWh/a	217/1045	285/1307	292/1430	378/1889	501/3700	501/3700	384/1870
Refrigerant	GWP	R32/675			R410A/2088			
	charge kg/TCO <sub>2</sub> e	1.30/0.878			2.75/1.86	4.0/2.7		2.75/1.86
Designated heating season	Average							

Indoor unit	FDE50VHx2	FDE40VH	FDE50VH	FDE60VH	FDE71VH	FDE100VH	FDE100VH	FDE40VHx2
Outdoor unit	FDC100VXS-W	SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX	FDC100VNX	FDC100VXS	FDC71VNX
Energy class (cooling/heating)	A++/A+	A+/A+	A+/A+	A+/A+	B/A+	A+/A+	A+/A+	A+/A+
SEER	6.76	6.46	6.10	6.72	4.87	5.89	5.84	5.26
SCOP (Average climate)	4.00	3.93	3.92	4.08	4.00	4.18	4.17	4.09
Pdesign (cooling/heating (@-10°C))	kW	10.0/9.8	4.0/3.0	5.0/3.8	5.6/4.3	7.1/6.0	10.0/11.2	10.0/11.2
Annual electricity consumption (cooling/heating)	kWh/a	518/3434	217/1070	288/1359	292/1476	511/2102	595/3756	599/3762
Refrigerant	GWP	R32/675			R410A/2088			
	charge kg/TCO <sub>2</sub> e	4.0/2.7	1.5/3.132		2.95/6.160		4.5/9.396	2.95/6.160
Designated heating season	Average							

Indoor unit	FDE50VHx2	FDE50VHx2	FDE100VH	FDE100VH	FDE50VHx2	FDE50VHx2	FDE100VH	FDE100VH
Outdoor unit	FDC100VNX	FDC100VXS	FDC100VNA-W	FDC100VSA-W	FDC100VNA-W	FDC100VSA-W	FDC100VNA	FDC100VSA
Energy class (cooling/heating)	A/A	A/A	A+/A+	A+/A+	A+/A+	A+/A+	A+/A+	A+/A+
SEER	5.53	5.49	6.67	6.67	6.16	6.16	6.35	6.35
SCOP (Average climate)	3.94	3.94	4.31	4.31	4.10	4.10	4.31	4.31
Pdesign (cooling/heating (@-10°C))	kW	10.0/10.8	10.0/10.8	10.0/8.5	10.0/8.5	10.0/8.5	10.0/8.5	10.0/8.5
Annual electricity consumption (cooling/heating)	kWh/a	634/3840	638/3841	525/2764	525/2764	569/2906	552/2763	552/2763
Refrigerant	GWP	R410A/2088		R32/675			R410A/2088	
	charge kg/TCO <sub>2</sub> e	4.5/9.396		3.3/2.228			3.8/7.934	
Designated heating season	Average							

Indoor unit	FDE50VHx2	FDE50VHx2	FDE71VH	FDE100VH	FDE100VH	FDE100VH	FDE71VH	FDE100VH	FDE100VH
Outdoor unit	FDC100VNA	FDC100VSA	FDC71VNP-W	FDC90VNP-W	FDC100VNP-W	FDC71VNP	FDC90VNP1	FDC100VNP	FDC100VNP
Energy class (cooling/heating)	A+/A+	A+/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+
SEER	5.71	5.71	6.44	6.78	6.63	6.35	6.63	6.73	6.73
SCOP (Average climate)	4.10	4.10	4.32	4.46	4.24	4.22	4.25	4.44	4.44
Pdesign (cooling/heating (@-10°C))	kW	10.0/8.5	10.0/8.5	7.10/5.70	9.0/5.8	10.0/6.0	7.1/5.8	9.0/8.2	10.0/8.1
Annual electricity consumption (cooling/heating)	kWh/a	613/2905	613/2905	386/1849	465/1822	529/1984	392/1927	475/2703	521/2555
Refrigerant	GWP	R410A/2088		R32/675		R410A/2088		R32/675	
	charge kg/TCO <sub>2</sub> e	3.8/7.934		1.30/0.878		1.70/1.148		2.55/5.324	
Designated heating season	Average								

Indoor unit	FD71VH	FDF100VH	FDF100VH	FDF71VD1	FDF100VD2	FDF100VD2	FDF100VH	FDF100VH	
Outdoor unit	FDC71VNX-W	FDC100VNX-W	FDC100VNX-W	FDC71VNX	FDC100VNX	FDC100VNX	FDC100VNA-W	FDC100VSA-W	
Energy class (cooling/heating)	A++/A+	A++/A	A++/A	B/A	A/A	A/A	A+/A+	A+/A+	
SEER	6.25	6.10	6.10	4.80	5.20	5.17	5.76	5.76	
SCOP (Average climate)	4.03	3.84	3.84	3.81	3.80	3.80	4.00	4.00	
Pdesign (cooling/heating (@-10°C))	kW	7.1/6.0	10.0/11.2	10.0/11.2	7.1/6.7	10.0/13.0	10.0/13.0	10.0/8.50	
Annual electricity consumption (cooling/heating)	kWh/a	376/2085	574/4084	574/4084	518/2464	673/4792	678/4795	608/2973	
Refrigerant	GWP	R32/675		R410A/2088		R32/675		R32/675	
	charge kg/TCO <sub>2</sub> e	2.75 / 1.86		4.0 / 2.7		2.95/6.160		4.5/9.396	
Designated heating season	Average								

Indoor unit	FDF100VD2	FDF100VD2	FDF71VH	FDF100VH	FDF100VH	FDF71VD1	FDF100VD2	FDF100VD2	
Outdoor unit	FDC100VNA	FDC100VSA	FDC71VNP-W	FDC90VNP-W	FDC100VNP-W	FDC71VNP	FDC90VNP1	FDC100VNP	
Energy class (cooling/heating)	A+/A+	A+/A+	A+/A	A+/A+	A/A	A/A	A+/A+	A/A	
SEER	5.70	5.70	5.85	5.90	5.43	5.25	5.69	5.41	
SCOP (Average climate)	4.00	4.00	3.91	4.24	3.94	3.91	4.01	3.94	
Pdesign (cooling/heating (@-10°C))	kW	10.0/8.5	10.0/8.5	7.10/5.70	9.0/6.0	10.0/6.40	7.1/5.5	9.0/8.1	
Annual electricity consumption (cooling/heating)	kWh/a	614/2978	614/2978	425/2039	535/1981	645/2274	474/1972	554/2825	
Refrigerant	GWP	R410A/2088		R32/675		R410A/2088		R32/675	
	charge kg/TCO <sub>2</sub> e	3.8/7.934		1.6/3.341		1.7/1.15		2.55/5.324	
Designated heating season	Average								

- Refrigerant contained in the products is a fluorinated greenhouse gas listed in Regulation (EU) No 517/2014.
- SEER/SCOP are based on EN14825:2016 and Commission regulation(EU) No.2016/2281. Temperature conditions for calculating SCOP are based on 'Average climate'.
- 'tonne(s) of CO<sub>2</sub> equivalent' means a quantity of greenhouse gases- expressed as the product of the weight of the greenhouse gases in metric tonnes and of their global warming potential.

## SEER and SCOP is defined in European regulations listed below.

No.2016/2281: requirement for air-heating products, cooling products, high temperature process chillers and fan coil units. Seasonal efficiency is the new way of rating the true efficiency of heating and cooling products over an entire year.

Set by the EU's new regulation implementing Eco-Design Directive for Energy Related Product (ErP) which specifies the minimum efficiency of air-conditioners manufacturers must integrate into their products.

The new Seasonal Efficiency rating system that must be used for heating and cooling by all manufacturers are;

Indoor unit	FDT125VH	FDT140VH	FDT125VH	FDT140VH	FDT125VH	FDT140VH	FDT125VH	FDT140VH	FDT125VH	FDT140VH	FDT125VH	FDT140VH
Outdoor unit	FDC125VNX-W	FDC140VNX-W	FDC125VNX-W	FDC140VNX-W	FDC125VNX	FDC140VNX	FDC125VNX	FDC140VNX	FDC125VNA-W	FDC140VNA-W	FDC125VSA-W	FDC140VSA-W
SEER	7.64	7.20	7.64	7.20	6.18	5.97	6.18	6.11	6.53	6.17	6.53	6.17
SCOP (Average climate)	4.44	4.35	4.26	4.14	4.08	4.05	4.03	3.99	4.38	4.42	4.38	4.42

Indoor unit	FDT125VH	FDT140VH	FDT125VH	FDT140VH	FDT125VH	FDT140VH	FDT125VH	FDT140VH	FDT125VH	FDT140VH	FDT125VH	FDT140VH
Outdoor unit	FDC125VNA	FDC140VNA	FDC125VSA	FDC140VSA	FDC125VNP-W	FDC125VNX-W	FDC140VNX-W	FDC125VNX-W	FDC140VNX-W	FDC125VNX	FDC140VNX	FDC125VNX
SEER	6.52	6.16	6.52	6.16	6.37	6.10	5.79	6.10	5.79	5.34	5.22	5.49
SCOP (Average climate)	4.38	4.28	4.38	4.28	4.27	4.06	3.99	3.92	3.88	3.87	3.85	3.91

Indoor unit	FDT125VH	FDT140VH	FDT125VH	FDT140VH	FDT125VH	FDT140VH	FDT125VH	FDT140VH	FDT125VH	FDT140VH	FDT125VH	FDT140VH
Outdoor unit	FDC125VNA	FDC140VNA	FDC125VSA	FDC140VSA	FDC125VNP-W	FDC125VNX-W	FDC140VNX-W	FDC125VNX-W	FDC140VNX-W	FDC125VNX	FDC140VNX	FDC125VNX
SEER	5.36	5.57	5.30	5.57	5.30	5.10	4.88	4.92	5.26	5.08	5.26	5.08
SCOP (Average climate)	3.88	4.13	4.01	4.13	4.01	3.55	3.54	3.70	4.13	4.01	4.13	4.01

Indoor unit	FDT125VH	FDT140VH	FDT125VH	FDT140VH	FDT125VH	FDT140VH	FDT125VH	FDT140VH	FDT125VH	FDT140VH	FDT125VH	FDT140VH
Outdoor unit	FDC125VNA	FDC140VNA	FDC125VSA	FDC140VSA	FDC125VNP-W	FDC125VNX-W	FDC140VNX-W	FDC125VNX-W	FDC140VNX-W	FDC125VNX	FDC140VNX	FDC125VNX
SEER	5.06	4.82	5.50	6.10	5.79	6.10	5.79	5.34	5.22	5.49	5.36	5.57
SCOP (Average climate)	3.52	3.51	4.01	4.06	3.99	3.92	3.88	3.87	3.85	3.91	3.88	4.13

Indoor unit	FDT125VH	FDT140VH	FDT125VH	FDT140VH	FDT125VH	FDT140VH	FDT125VH	FDT140VH	FDT125VH	FDT140VH	FDT125VH	FDT140VH
Outdoor unit	FDC125VNA	FDC140VNA	FDC125VSA	FDC140VSA	FDC125VNP-W	FDC125VNX-W	FDC140VNX-W	FDC125VNX-W	FDC140VNX-W	FDC125VNX	FDC140VNX	FDC125VNX
SEER	5.30	5.57	5.30	5.57	5.30	5.10	4.88	4.92	5.26	5.08	5.26	5.08
SCOP (Average climate)	4.01	4.13	4.01	4.13	4.01	3.55	3.54	3.70	4.13	4.01	4.13	4.01

Indoor unit	FDE125VH	FDE140VH	FDE125VH	FDE140VH	FDE125VH	FDE140VH	FDE125VH	FDE140VH	FDE125VH	FDE140VH	FDE125VH	FDE140VH
Outdoor unit	FDC125VNX	FDC140VNX	FDC125VNX	FDC140VNX	FDC125VNA-W	FDC140VNA-W	FDC125VSA-W	FDC140VSA-W	FDC125VNA	FDC140VNA	FDC125VSA	FDC140VSA
SEER	5.56	5.41	5.74	5.56	6.03	5.76	6.03	5.76	6.03	5.76	6.03	5.76
SCOP (Average climate)	3.71	3.66	3.66	3.62	4.30	4.24	4.30	4.24	4.30	4.24	4.30	4.15

Indoor unit	FDF125VH	FDF125VH	FDF140VH	FDF125VH	FDF140VH	FDF125VD	FDF140VD	FDF125VD	FDF140VD	FDF125VH	FDF140VH	FDF125VH
Outdoor unit	FDC125VNP-W	FDC125VNX-W	FDC140VNX-W	FDC125VNX-W	FDC140VNX-W	FDC125VNX	FDC140VNX	FDC125VNX	FDC140VNX	FDC125VNA-W	FDC140VNA-W	FDC125VSA-W
SEER	5.95	5.96	5.81	5.96	5.81	4.97	4.80	5.11	4.94	5.36	5.19	5.36
SCOP (Average climate)	4.21	3.89	3.81	3.85	3.72	3.60	3.56	3.60	3.60	3.96	3.99	3.96

Indoor unit	FDF140VH	FDF125VD	FDF140VD	FDF125VD	FDF140VD
Outdoor unit	FDC140VSA-W	FDC125VNA	FDC140VNA	FDC125VSA	FDC140VSA
SEER	5.19	5.36	5.09	5.36	5.03
SCOP (Average climate)	3.99	3.96	4.16	3.96	4.16

## Before starting use

### Heating performance

The heating performance values (kW) described in the catalogue are the values obtained by operating at an outdoor temperature of 7°C and indoor temperature of 20°C as set forth in the ISO Standards. Heating performance is reduced as the temperature drops, the outdoor temperature is too low and the heating performance is insufficient, use other heating appliances as well.

### Indication of sound values

The sound values are the values (A scale) measured in a chamber such as an anechoic chamber following the ISO Standards. In the actual installation state, the value is normally larger than the values given in the catalogue due to the effect of surrounding noise and echo. Take this into consideration when installing.

### Use in oil atmosphere

Avoid installing this unit in an atmosphere where oil scatters or builds up, such as in a kitchen or machine factory.

If the oil adheres to the heat exchanger, the heat exchanging performance will drop, mist may be generated, and the synthetic resin parts may deform and break.

### Use in acidic or alkaline atmosphere

If this unit is used in acidic atmosphere such as hot spring areas having high level of sulfuric gases or in alkaline atmosphere including ammonia or calcium chloride, places where the exhaust of the heat exchanger is sucked in, or at coastal areas where the unit is subject to salt breezes, the outer plate or heat exchanger, etc., will corrode. Please ask a dealer or specialist when you use an air conditioner in places differing from a general atmosphere.

### Use in places with high ceilings

If the ceiling is high, install a circulator to improve the heat and air flow distribution when heating.

### Refrigerant leakage

The refrigerant (R32,R410A) used for air conditioner is non-toxic and in its original state.

However, in consideration of a state where the refrigerant leaks into the room, measures against refrigerant leaks must be taken in small rooms where the tolerable level could be exceeded. Take measures by installing ventilation devices, etc.

### Use in snowy areas

Take the following measures when installing the outdoor unit in snowy areas.

#### ·Snow prevention

Install a snow-prevention hood so that the snow does not obstruct the air intake port or enter and freeze in the outdoor unit.

#### ·Snow piling

In areas with heavy snow fall, the piled snow could block the air intake port. In this case, a frame that is 50cm or higher than the estimated snow fall must be installed underneath the outdoor unit.

### Automatic defrosting device

If the temperature is low, and the humidity is high, frost will stick to the heat exchanger of the outdoor unit. If continued to use, the heating performance will drop.

The "Automatic defrosting device" will function to remove this frost. After heating for approx. three to ten minutes, it will stop, and the frost will be removed. After defrosting, hot air will be blown again.

### Servicing

After the air conditioner has been used for several seasons, dirt will build up in the air conditioner causing the performance to drop. In addition to regular servicing, a maintenance contract by a specialist is recommended.

## Safety Precautions

### Air conditioner usage target

The air conditioner described in this catalogue is a dedicated cooling/heating device for human use.

Do not use it for special applications such as the storage of food items, animals or plants, precision devices or valuable art, etc.

This could cause the quality of the items to drop, etc.

Do not use this for cooling vehicles or ships. Water leakage or current leaks could occur.

### Before use

Always read the "User's Manual" thoroughly before starting use.

### Installation

Always commission the installation to a dealer or specialist. Improper installation will lead to water leakage, electric shocks and fires.

Make sure that the outdoor unit is stable in installation. Fix the unit to stable base.

### Usage place

Do not install in places where combustible gas could leak or where there are sparks. Installation in a place where combustible gas could be generated, flow or accumulate, or places containing carbon fibers could lead to fires.

Our factories are ISO9001 and ISO14001 certified.

Certified ISO 9001



Certificate Number : JGA-0709



Certificate:44 100 980813



Certificate Number : 4333-2007-AQ-RGC-RvA

Certified ISO 14001



Certificate:04 104 980813



Certificate number : 02122E10366R2M



Mitsubishi Heavy Industries Thermal Systems, Ltd. Participate in the Eurovent certification program for comfort air conditioner (AC1 & AC2). Check ongoing validity of certificate: [www.eurovent-certification.com](http://www.eurovent-certification.com)



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Because of our policy of continuous improvement, we reserve the right to make changes in all specifications without notice.

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